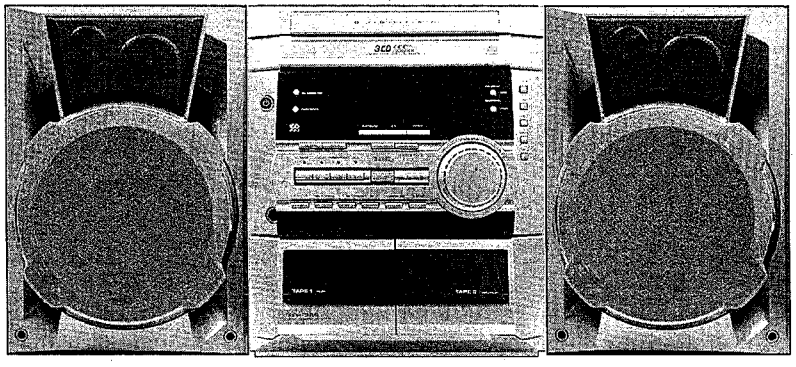
SERVICE MANUAL

VTC-CD 4326
F-786

3CD CHANGER HI-FI SYSTEM



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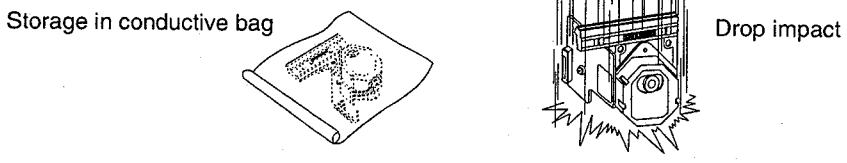
SECTION 1. GENERAL

SERVICING PRECAUTIONS

NOTES REGARDING HANDLING OF THE PICK-UP

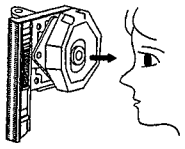
1. Notes for transport and storage

1) The pick-up should always be left in its conductive bag until immediately prior to use.
2) The pick-up should never be subjected to external pressure or impact.



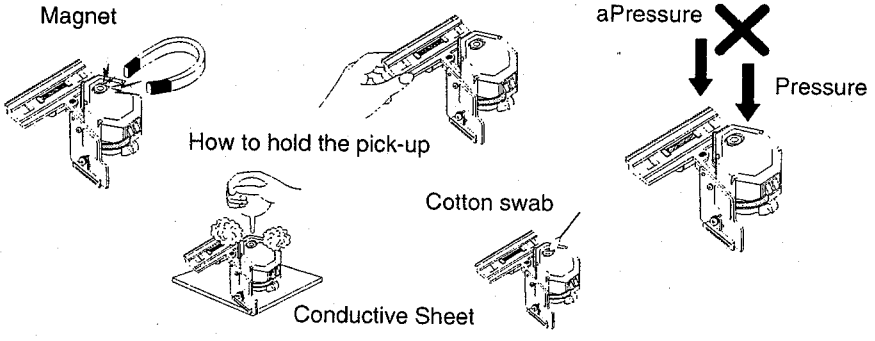
2. Repair notes

1) The pick-up incorporates a strong magnet, and so should never be brought close to magnetic materials.
2) The pick-up should always be handled correctly and carefully, taking care to avoid external pressure and impact. If it is subjected to strong pressure or impact, the result may be an operational malfunction and/or damage to the printed-circuit board.
3) Each and every pick-up is already individually adjusted to a high degree of precision, and for that reason the adjustment point and installation screws should absolutely never be touched.
4) Laser beams may damage the eyes!
   Absolutely never permit laser beams to enter the eyes!
   Also NEVER switch ON the power to the laser output part (lens, etc.) of the pick-up if it is damaged.



NEVER look directly at the laser beam, and don't let contact fingers or other exposed skin.

5) Cleaning the lens surface
   If there is dust on the lens surface, the dust should be cleaned away by using an air bush (such as used for camera lens). The lens is held by a delicate spring. When cleaning the lens surface, therefore, a cotton swab should be used, taking care not to distort this.



6) Never attempt to disassemble the pick-up.
   Spring by excess pressure. If the lens is extremely dirty, apply isopropyl alcohol to the cotton swab. (Do not use any other liquid cleaners, because they will damage the lens.) Take care not to use too much of this alcohol on the swab, and do not allow the alcohol to get inside the pick-up.

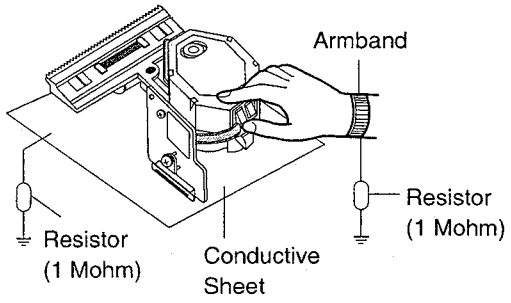
NOTES REGARDING COMPACT DISC PLAYER REPAIRS

1. Preparations

1) Compact disc players incorporate a great many ICs as well as the pick-up (laser diode). These components are sensitive to, and easily affected by, static electricity. If such static electricity is high voltage, components can be damaged, and for that reason components should be handled with care.
2) The pick-up is composed of many optical components and other high-precision components. Care must be taken, therefore, to avoid repair or storage where the temperature of humidity is high, where strong magnetism is present, or where there is excessive dust.

2. Notes for repair

1) Before replacing a component part, first disconnect the power supply lead wire from the unit
2) All equipment, measuring instruments and tools must be grounded.
3) The workbench should be covered with a conductive sheet and grounded.
   When removing the laser pick-up from its conductive bag, do not place the pick-up on the bag. (This is because there is the possibility of damage by static electricity.)
4) To prevent AC leakage, the metal part of the soldering iron should be grounded.
5) Workers should be grounded by an armband (1MΩ)
6) Care should be taken not to permit the laser pick-up to come in contact with clothing, in order to prevent static electricity changes in the clothing to escape from the armband.
7) The laser beam from the pick-up should NEVER be directly facing the eyes or bare skin.



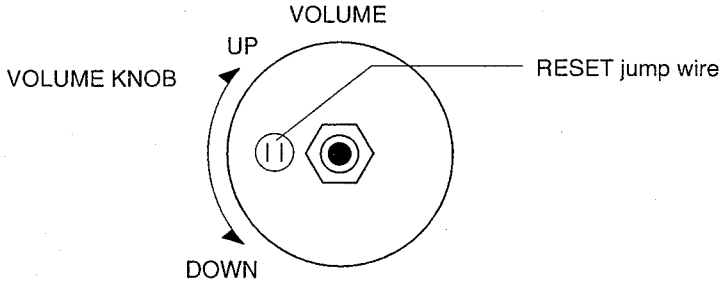
CLEARING MALFUNCTION

You can reset your unit to initial status if malfunction occur(button malfunction, display, etc.).

Using a pointed good conductor(such as driver), simply short the RESET jump wire on the inside of the volume knob for more than 3 seconds.

If you reset your unit, you must reenter all its settings(stations, clock, timer)

NOTE: 1. To operate the RESET jump wire, pull the volume rotary knob and release it.
2. If you wish to operate the RESET jump wire, it is necessary to unplug the power cord.



ESD PRECAUTIONS

Electrostatically Sensitive Devices (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
6. Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
7. Immediately before removing the protective material from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will by installed.

CAUTION : BE SURE NO POWER IS APPLIED TO THE CHASSIS OR CIRCUIT, AND OBSERVE ALL OTHER SAFETY PRECAUTIONS.

8. Minimize bodily motions when handing unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

CAUTION. GRAPHIC SYMBOLS

THE LIGHTNING FLASH WITH APROWHEAD SYMBOL. WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.

THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION IN SERVICE LITERATURE.

SPECIFICATIONS

General	Power supply	Refer to the back panel of the unit
	Power consumption	120W
	Net weight	10.5kg
	Extemal dimensions(WxHxl)	273x330x360
CD	Frequency Response	40Hz ~ 18000Hz
	Signal-to-noise ratio	70dB
	Dynamic range	70dB
FM	Tuning Range Intermediate Frequency	FM1 87.50MHz~180.0MHz 10.7MHz
	Signal-to-noise ratio	61/58dB
	Frequency Response	60Hz ~ 10000Hz
AM	Tuning Range	522kHz~1611kHz
	Intermediate Frequency	450MHz
	Signal-to-noise ratio	35dB
	Frequency Response	100Hz ~ 2000Hz
AMP	OUtput Power	100W+/100W
	T.H.D	0.15%
	Frequency Response	42Hz ~ 25000Hz
	Signal-to-noise ratio	80
Tape	Tape Speed	4.75(+2%, -1%) cm/sec
	Wow flutter	0.25%(MTT-111, JLS-WTD)
	F.F/REW Time	120sec(c-60)
	Frequency Response	125Hz ~ 8000Hz
	Signal-to-noise ratio	43dB
	channel separation	50dB(P/B)/45dB(R/P)
	Erase Ratio	55dB
SPEAKER	Type	3Way 3Speaker
	Impedance	6Ω
	Frequency Response	60~20000Hz
	Sound Pressure Level	86dB/W(1m)
	Rated Input Power	100W
	Max.Input Power	200W
	net Dimension(WxHxD)	200x326x277mm
	net weigh	4.85kg

NOTE : Specification are subject to change without notice in the course of product improvement.

MEMO

SECTION 2. ELECTRICAL
ADJUSTMENTS

This set has been aligned at the factory and normally will not require further adjustment. As a result, it is not recommended that any attempt is made to modificate any circuit. If any parts are replaced or if anyone tampers with the adjustment, realignment may be necessary.

IMPORTANT

1. Check Power-source voltage.
2. Set the function switch to band being aligned.
3. Turn volume control to minimum unless otherwise noted.
4. Connect low side of signal source and output indicator to chassis ground unless otherwise specified.
5. Keep the signal input as low as possible to avoid AGC and AC action.

TAPE DECK ADJUSTMENT

1. AZIMUTH ADJUSTMENT

Deck Mode	Test Tape	Test Point	Adjustment	Adjust for
A Deck Playback	MTT-114	Speaker Out	DECK Screw Azimuth Screw	Maximum
B Deck Playback	MTT-114	Speaker Out	Azimuth Screw	Maximum

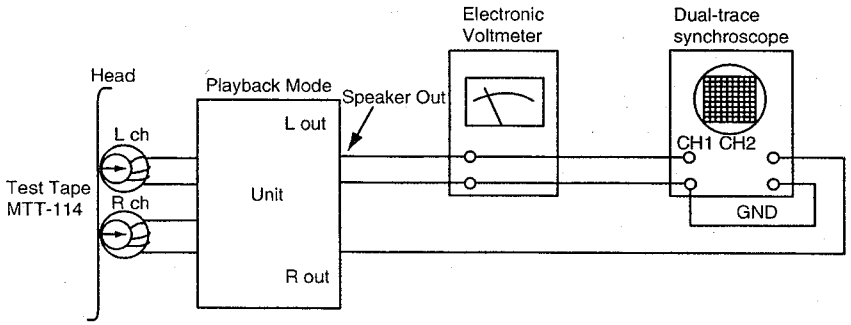


Figure 1. Azimuth Adjustment Connection Diagram

2. MOTOR SPEED ADJUSTMENT

Deck Mode	Test Tape	Test Point	Adjustment	Adjust for	Remark
Normal Speed	MTT-111	Speaker Out	VR201	3kHz ± 1%	A Deck
HI-Speed	MTT-111	Speaker Out	more than 5.4kHz		HI-Speed Dubbing Mode

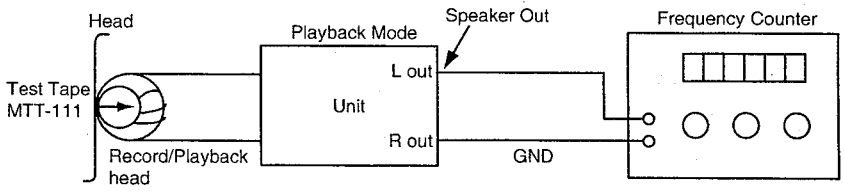


Figure 2. Motor Speed Adjustment Connection Diagram

3. RECORD BIAS ADJUSTMENT

Deck Mode	Test Tape	Test Point	Adjustment	Adjust for
Rec/Pause	MTT-5511	ERASE HEAD WIRE(PN202)	L203	60kHz±5kHz (Auto stop) 85kHz±5kHz(Auto Reverse)

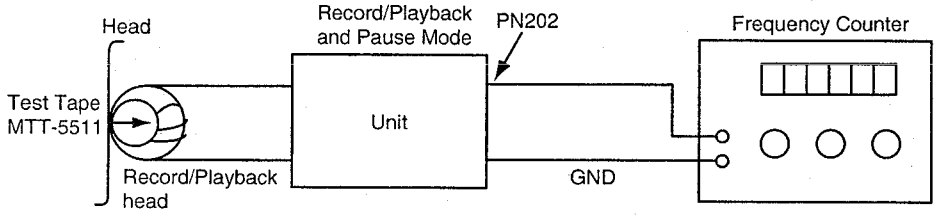


Figure 3. Record Bias Adjustment Connection Diagram

4. TUNER ADJUSTMENT

(FM)

Item	Test Point	Adjustment	Adjust for
DC Voltage	Checker IC Pin 26, 28	L106	0V±50mV

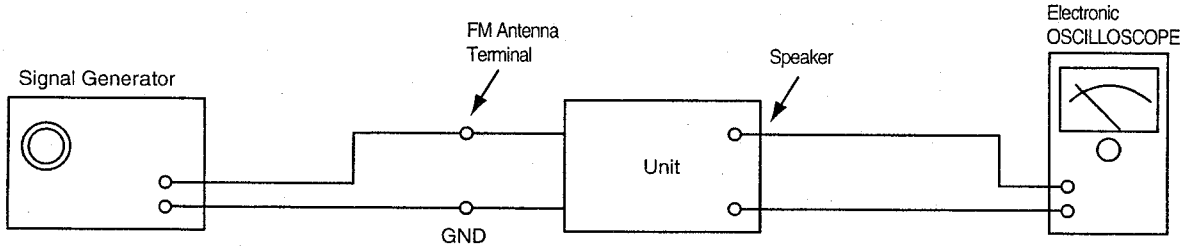
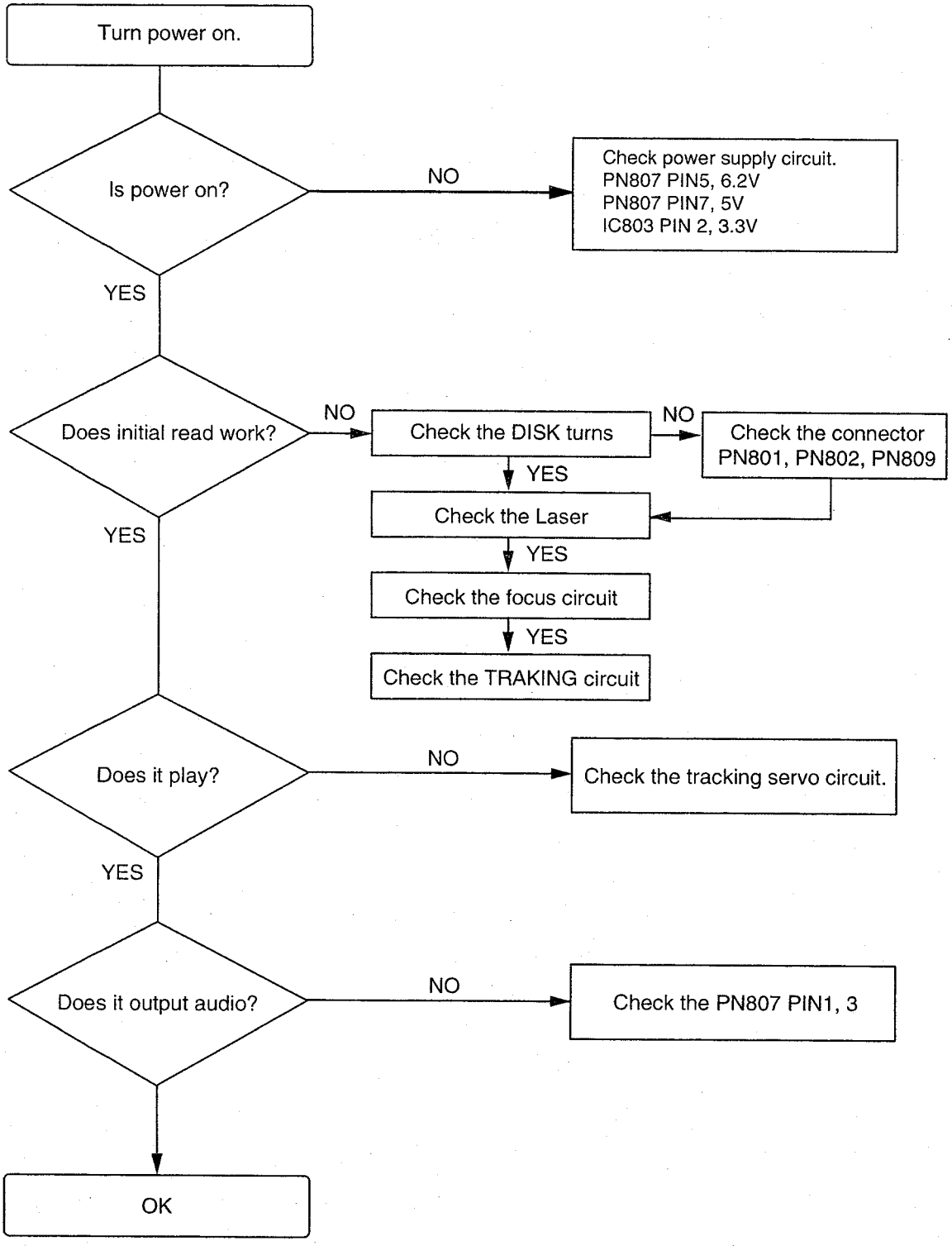
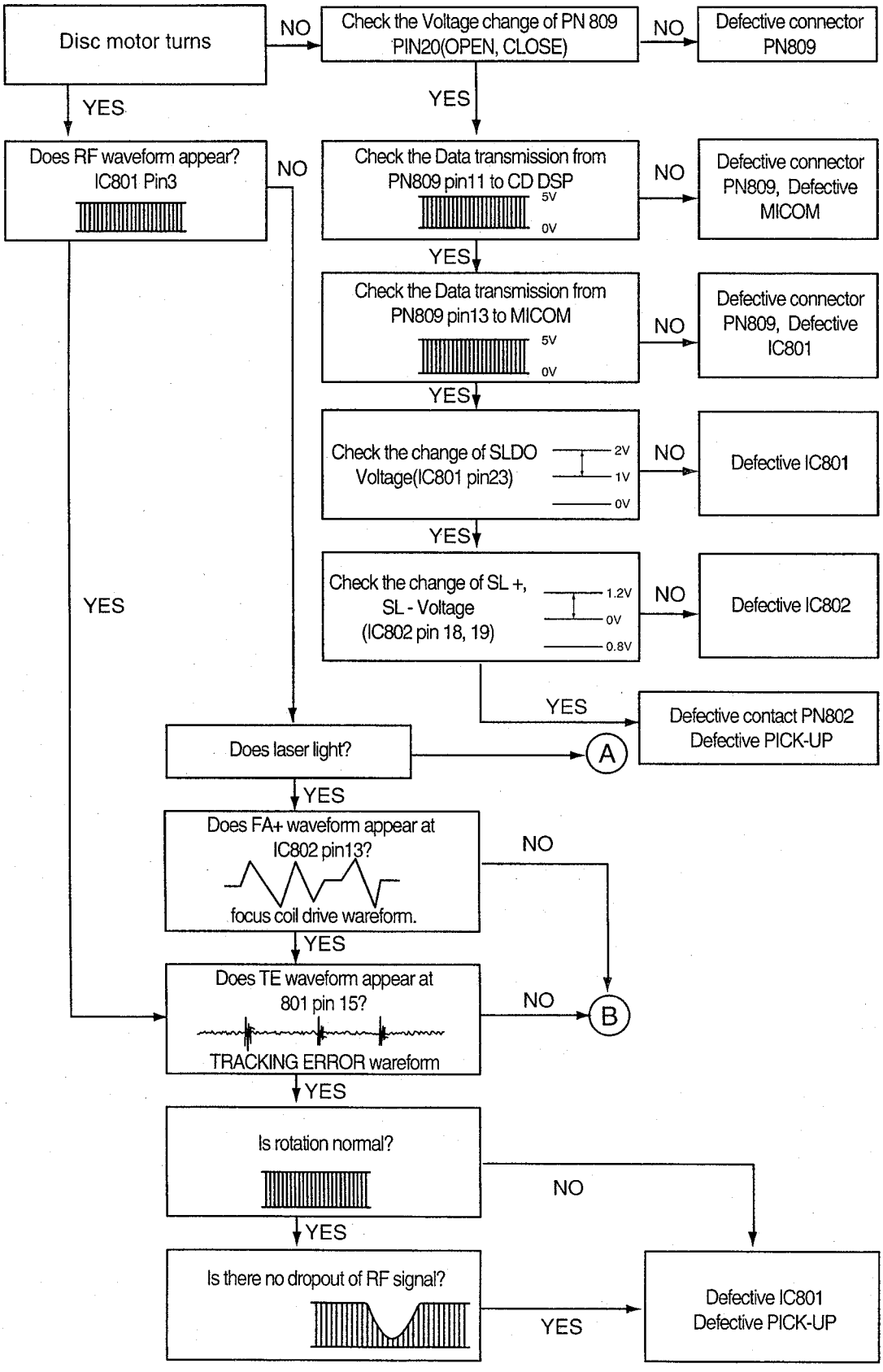


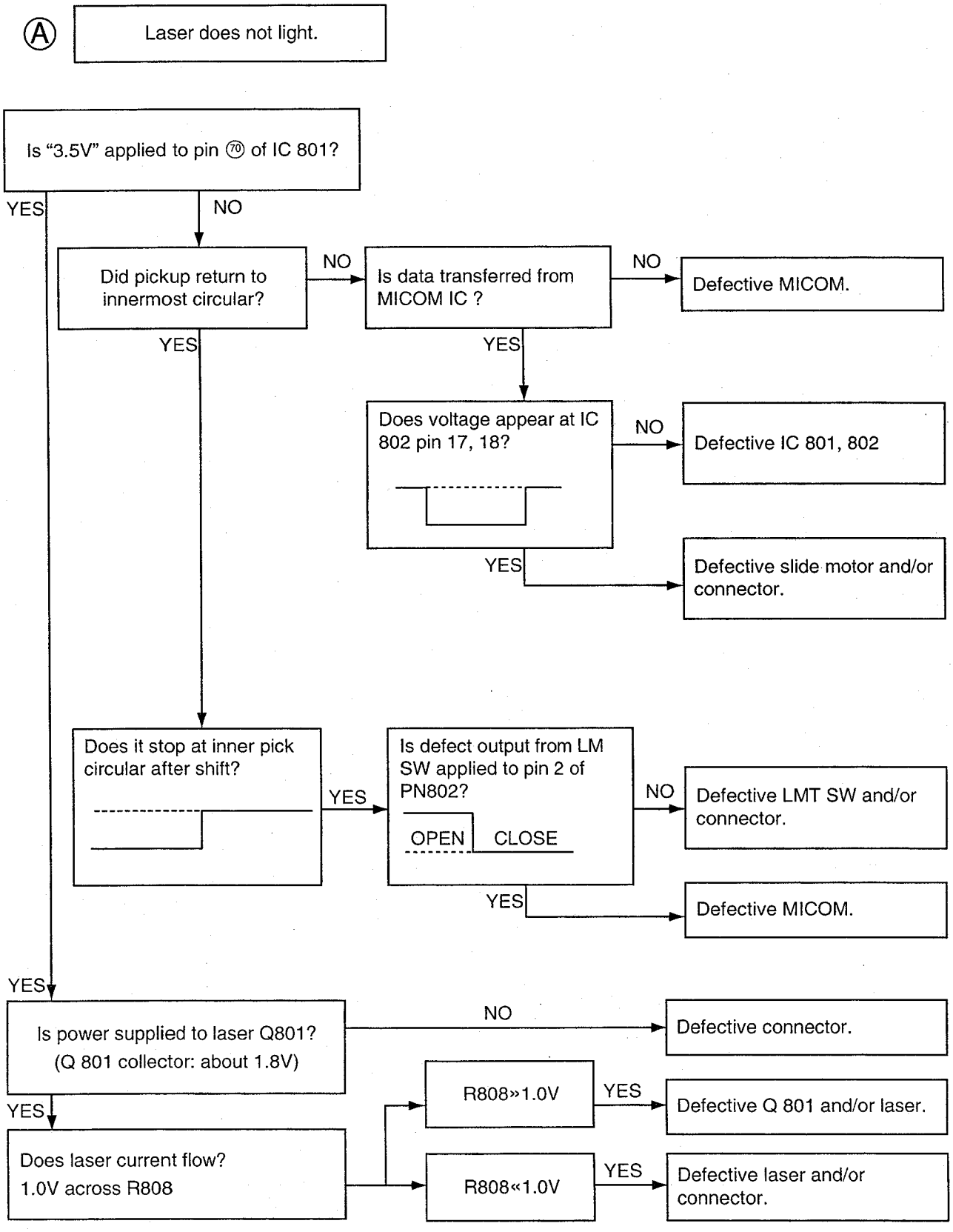
Figure 4. Tuner(S curve) Adjustment Connection Diagram

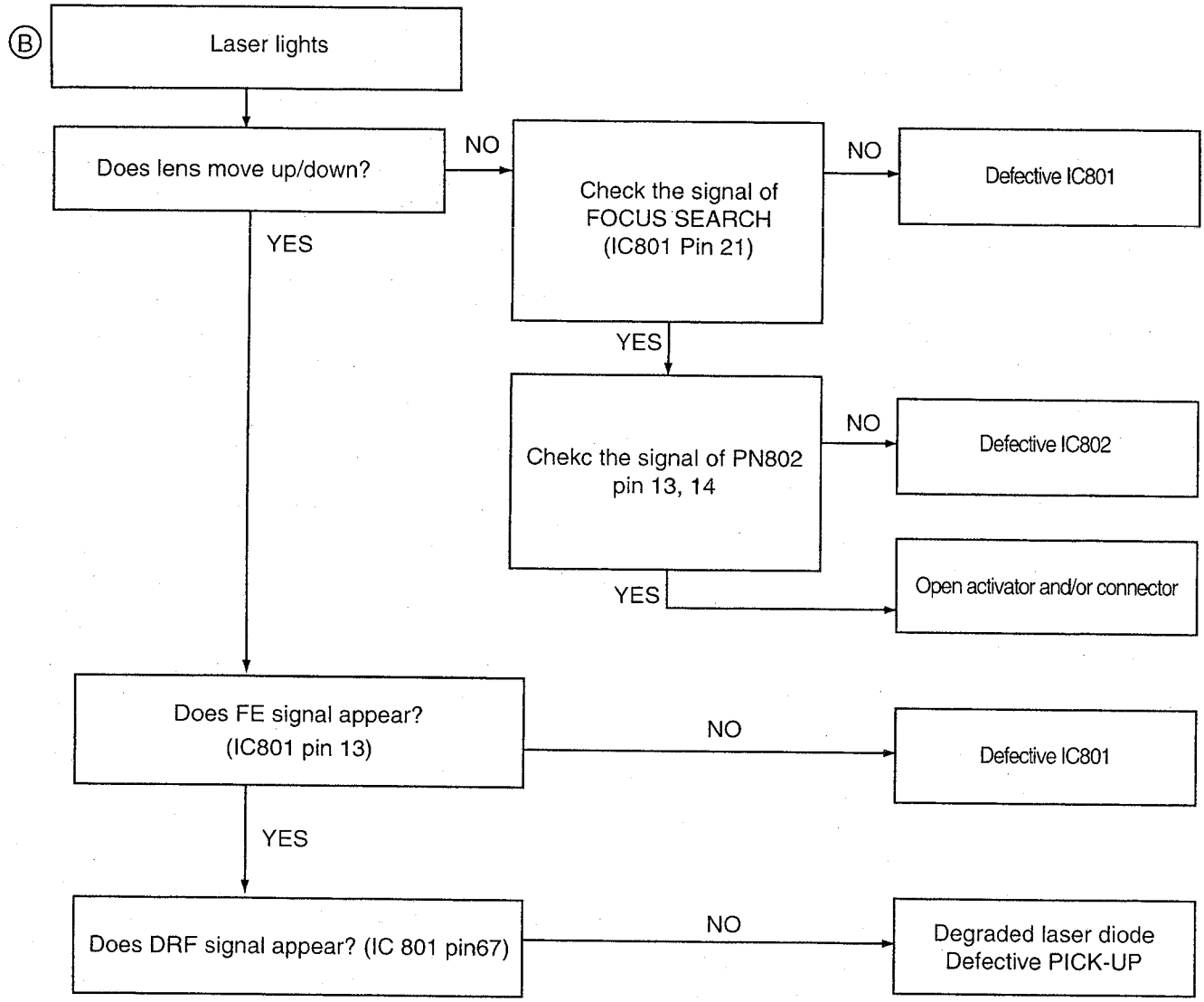
TROUBLESHOOTING



Fails to initial read

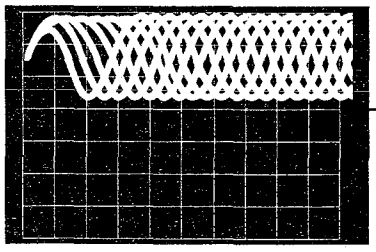



Ⓐ
Laser does not light.
Is "3.5V" applied to pin ⑦⓪ of IC 801?
YES
NO
Did pickup return to innermost circular?
NO
Is data transferred from MICOM IC ?
NO
Defective MICOM.
YES
YES
Does voltage appear at IC 802 pin 17, 18?
NO
Defective IC 801, 802
YES
Defective slide motor and/or connector.
Does it stop at inner pick circular after shift?
YES
Is defect output from LM SW applied to pin 2 of PN802?
OPEN
CLOSE
NO
Defective LMT SW and/or connector.
YES
Defective MICOM.
YES
Is power supplied to laser Q801? (Q 801 collector: about 1.8V)
NO
Defective connector.
YES
Does laser current flow? 1.0V across R808
R808»1.0V
YES
Defective Q 801 and/or laser.
R808«1.0V
YES
Defective laser and/or connector.

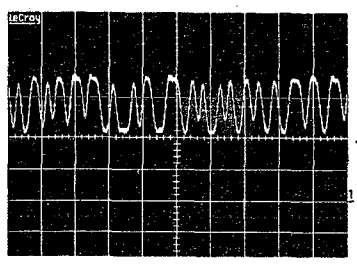

Ⓑ
Laser lights
Does lens move up/down?
NO
Check the signal of FOCUS SEARCH (IC801 Pin 21)
NO
Defective IC801
YES
YES
Chekc the signal of PN802 pin 13, 14
NO
Defective IC802
YES
Open activator and/or connector
Does FE signal appear? (IC801 pin 13)
NO
Defective IC801
YES
Does DRF signal appear? (IC 801 pin67)
NO
Degraded laser diode
Defective PICK-UP

WAVEFORMS OF MAJOR CHECK POINT

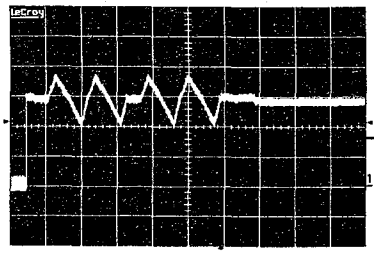
1. HF signal (RF signal) waveform
(IC801 pin 3) during normal play



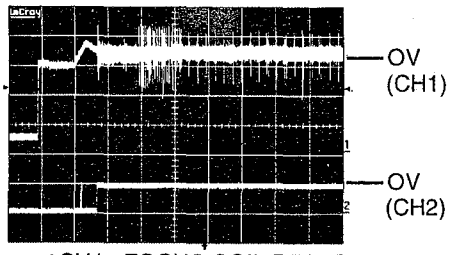
2. EFM signal (IC801 pin 3)waveform
during Normal Play



3. Focus coil drive waveform(IC802 pin13)
• When focus search failed or there is no disc on the tray

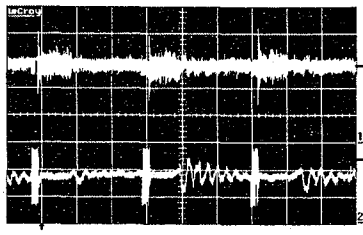


• Focus coil drive waveform(FDO: IC801 pin21) and
DRF(IC801 pin67) when focus search is accomplished



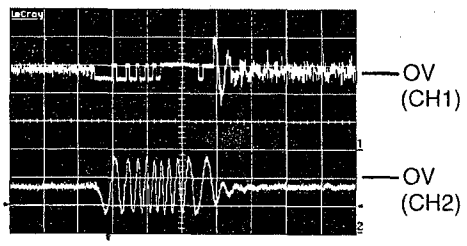
CH1 : FOCUS COIL DRIVE
SIGNAL 2V/Div.
CH2 : DRF

4. Tracking coil drive waveform and TE during track
traverse
(1) When time division is 20mS/Div.1V/Div.



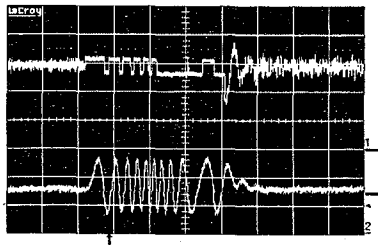
CH1 : TRACKING COIL DRIVE (IC802 pin27)
CH2 : TRACKING ERROR (TE: IC801 pin15)

(2) When time division 1mS/Div, 1V/Div
(During forward track traverse)



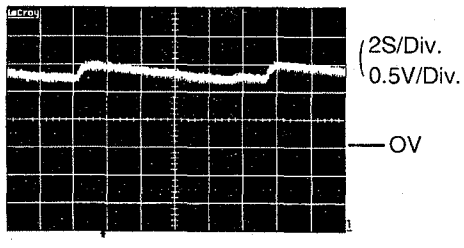
CH2 : TRACKING COIL DRIVE (IC802 pin27)
SIGNAL 2V/Div.
CH2 : TRACKING ERROR (TE: IC801 pin15)
1V/Div.

(3) When time division is 0.5nS/div.
(During backward Track Traverse)

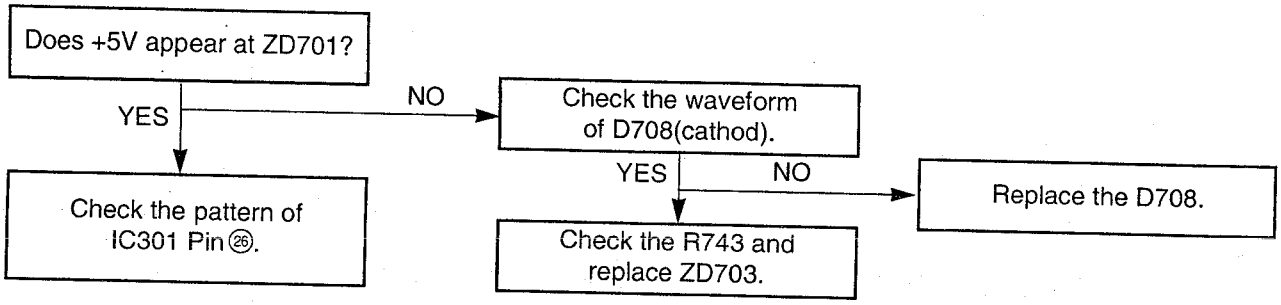


CH1 : TRACKING COIL DRIVE
SIGNAL 2V/Div. (IC802 pin27)
CH2 : TRACKING ERROR(TE: IC801 pin15)
1V/Div.

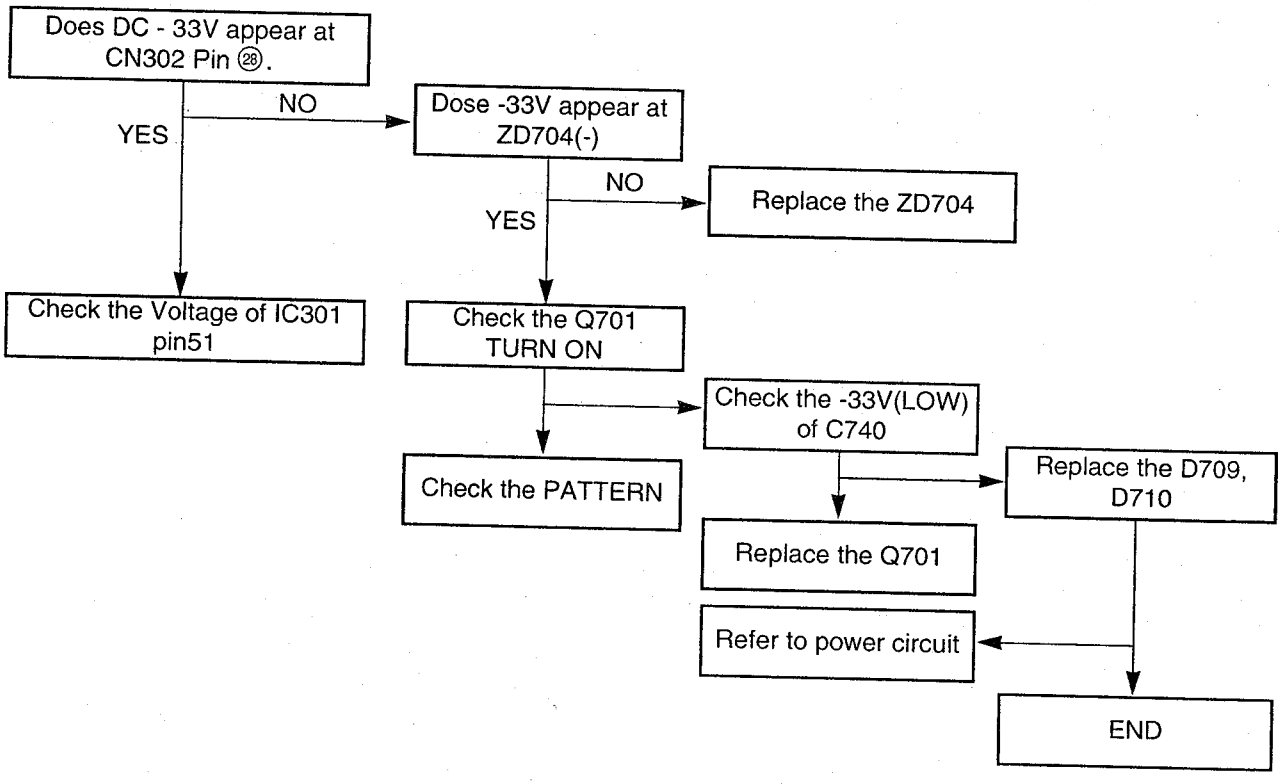
5. Feed motor drive waveform(IC 802 pin18)
During normal play



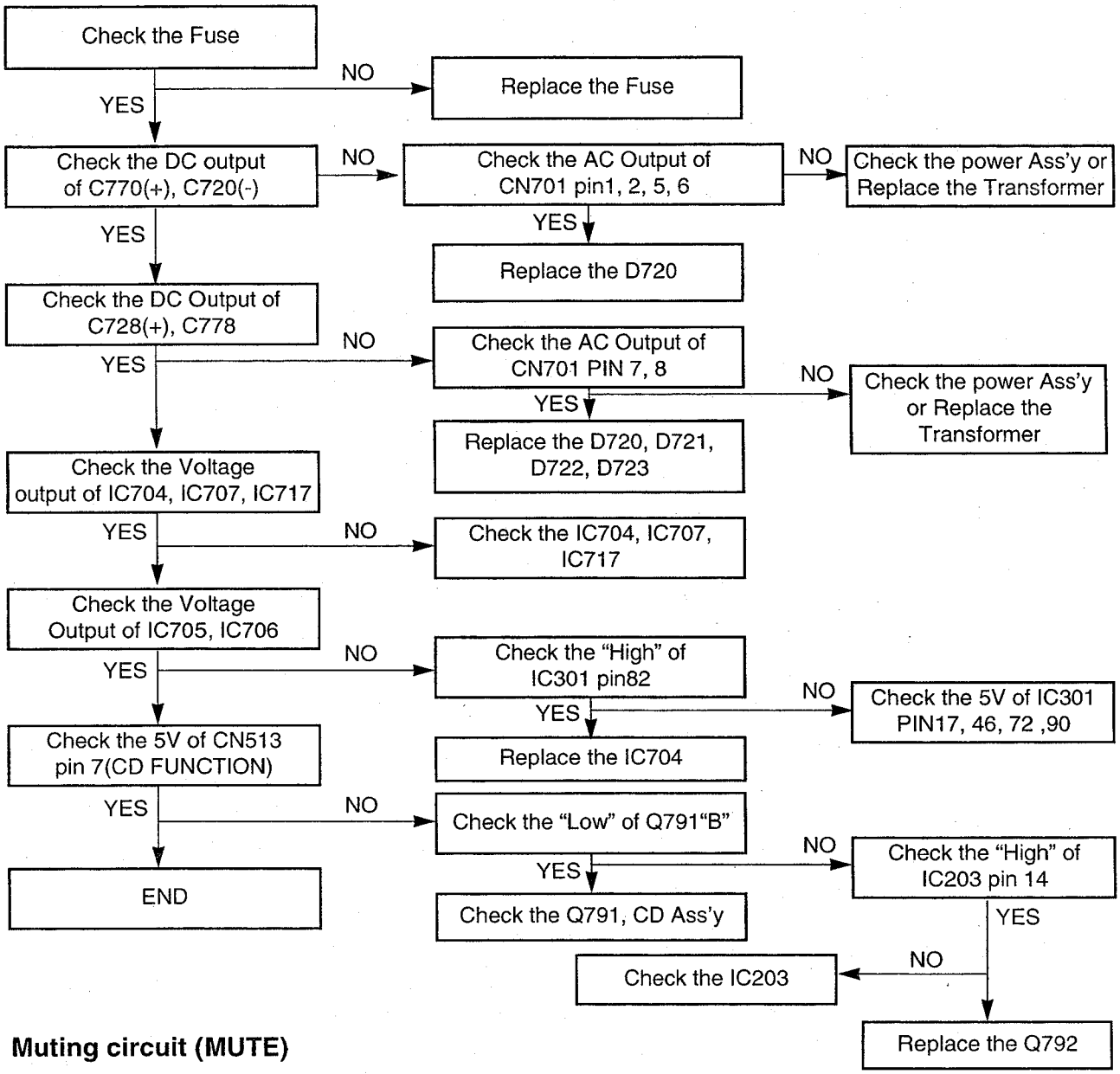
P-SENS PART



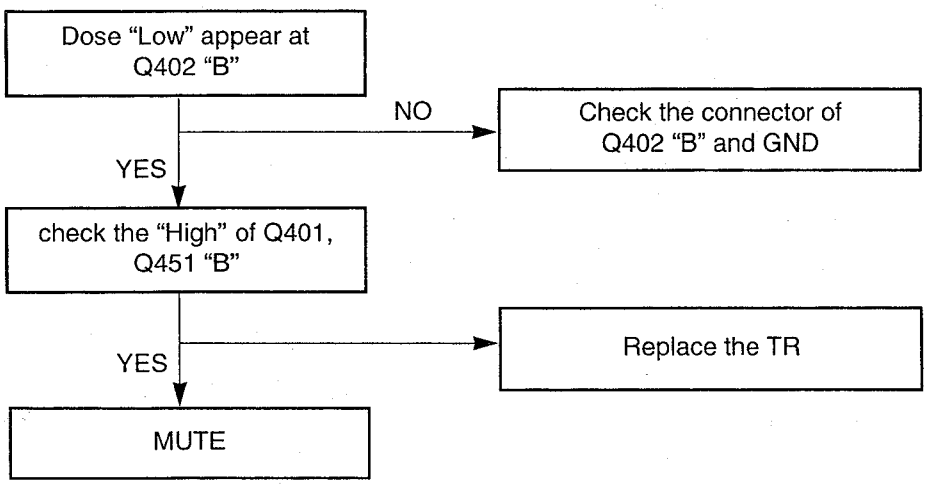
VKK PART



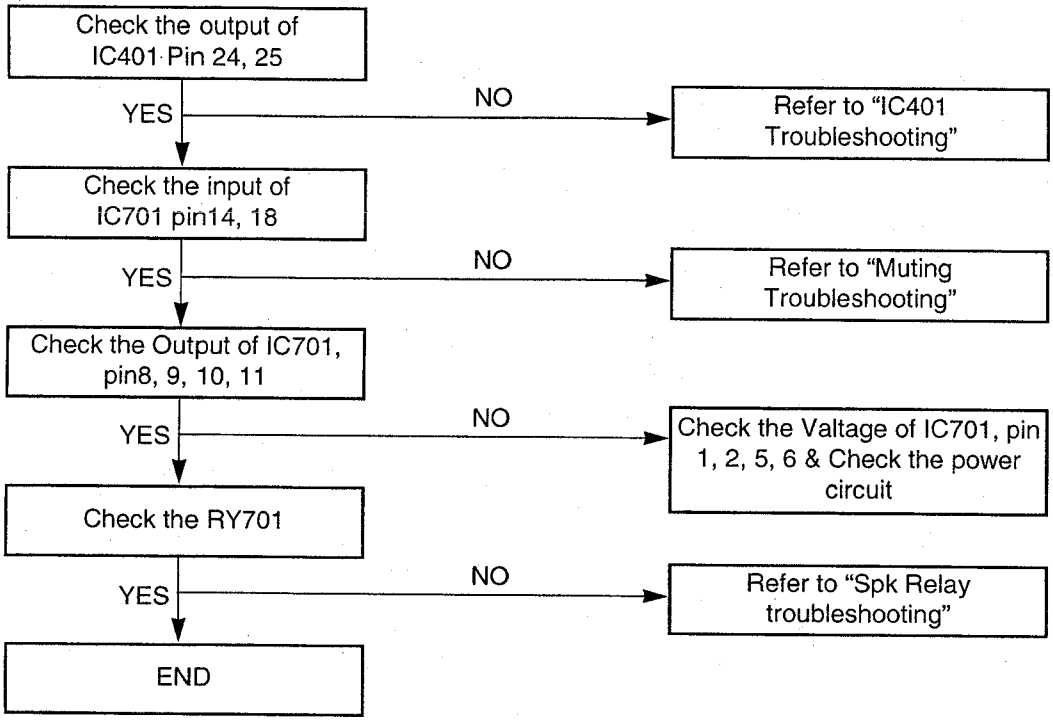
Power Circuit



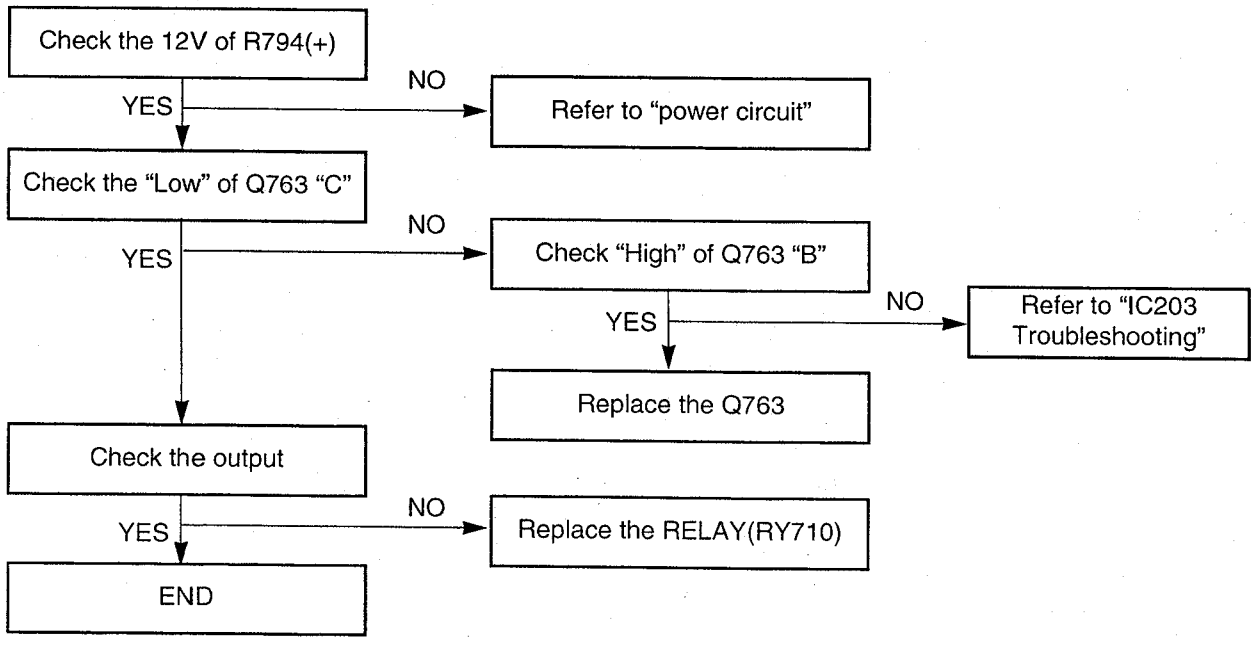
Muting circuit (MUTE)



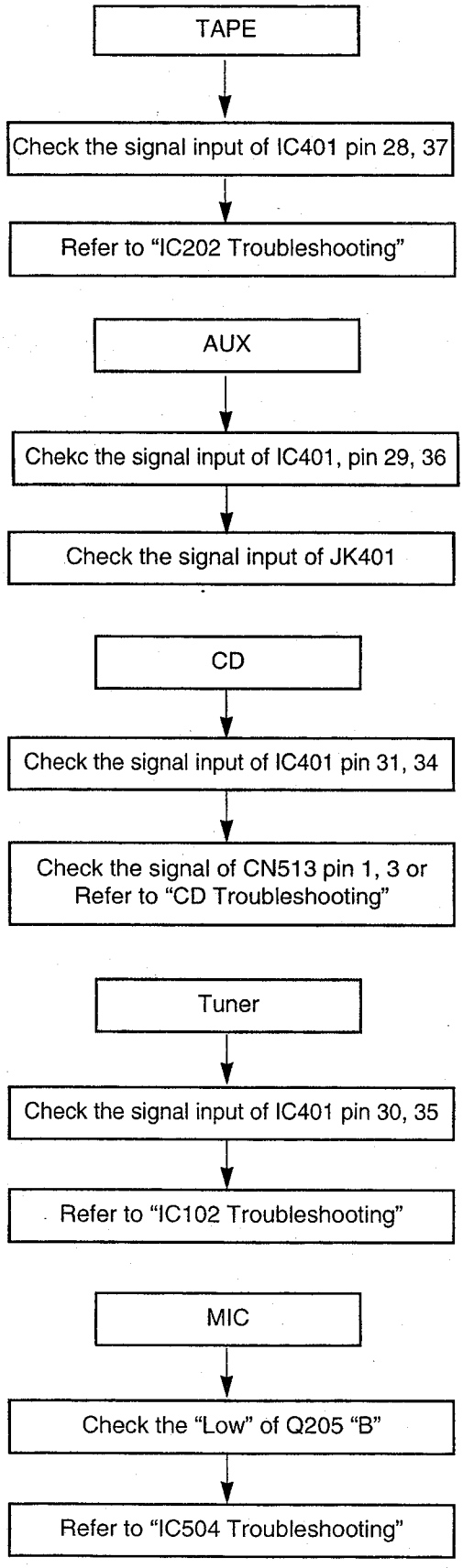
Audio abnormal



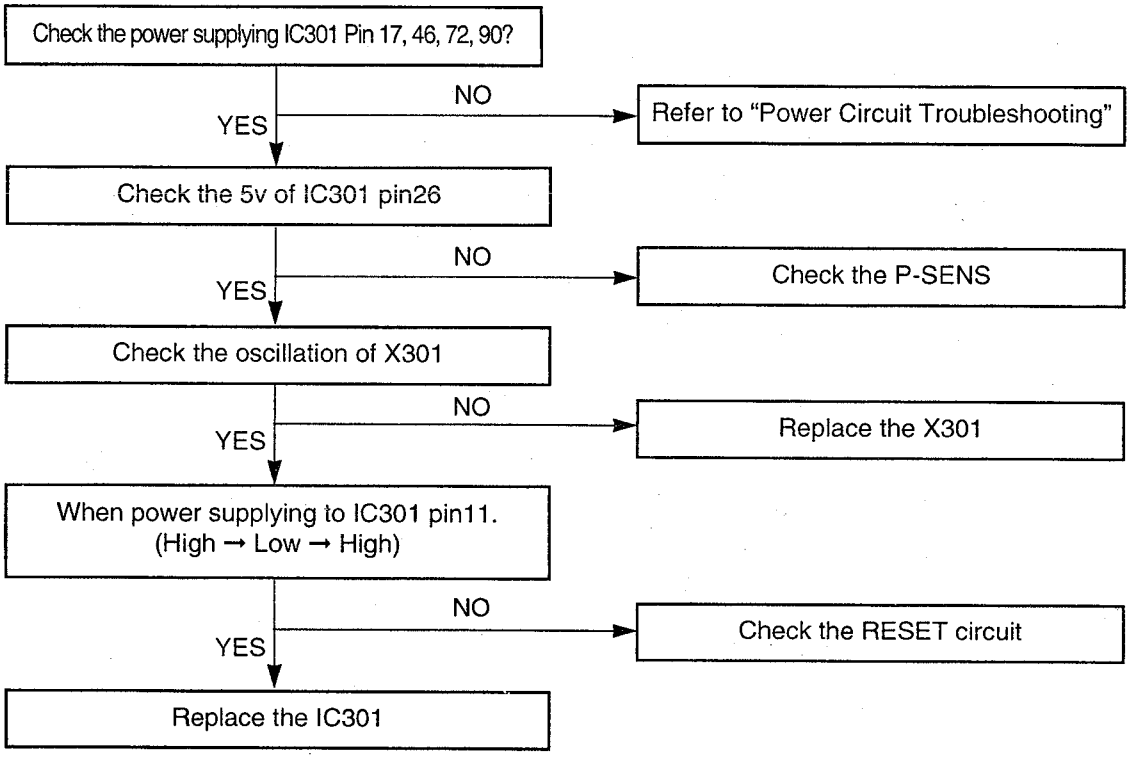
SPK Relay Troubleshooting



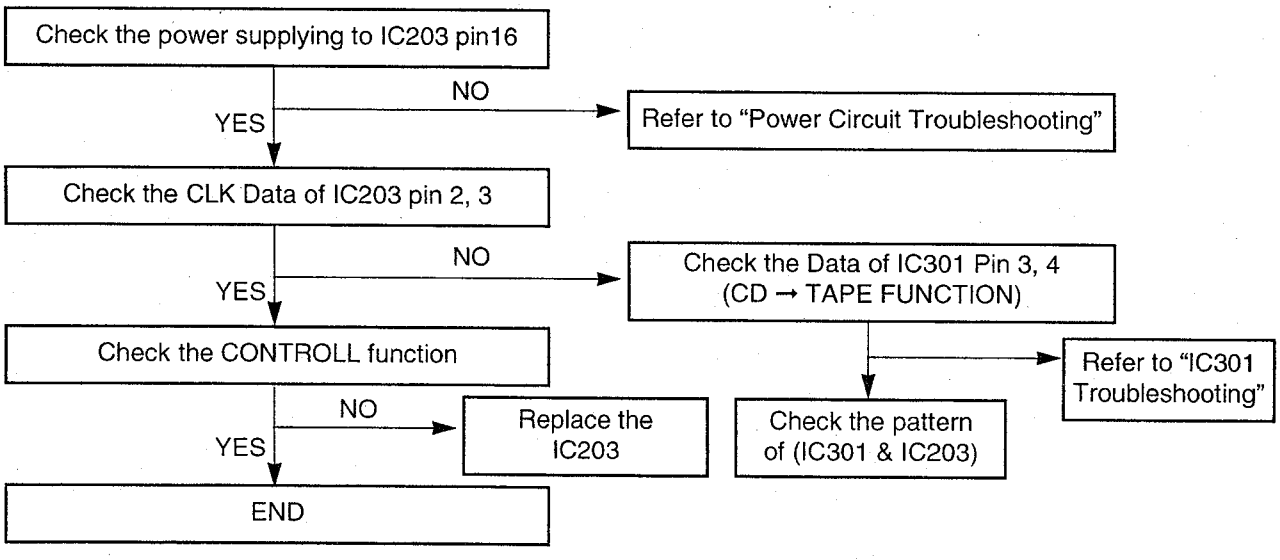
FUNCTION MODE Audio abnormal


TAPE
Check the signal input of IC401 pin 28, 37
Refer to "IC202 Troubleshooting"
AUX
Chekc the signal input of IC401, pin 29, 36
Check the signal input of JK401
CD
Check the signal input of IC401 pin 31, 34
Check the signal of CN513 pin 1, 3 or
Refer to "CD Troubleshooting"
Tuner
Check the signal input of IC401 pin 30, 35
Refer to "IC102 Troubleshooting"
MIC
Check the "Low" of Q205 "B"
Refer to "IC504 Troubleshooting"

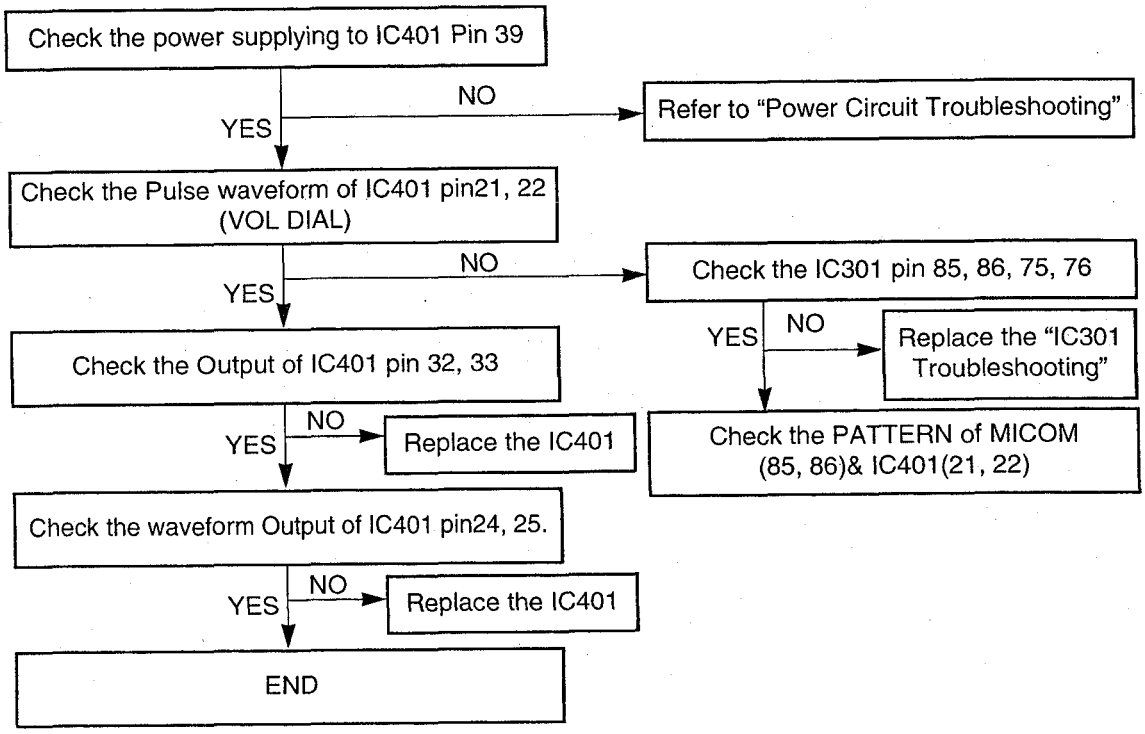
IC301 Troubleshooting



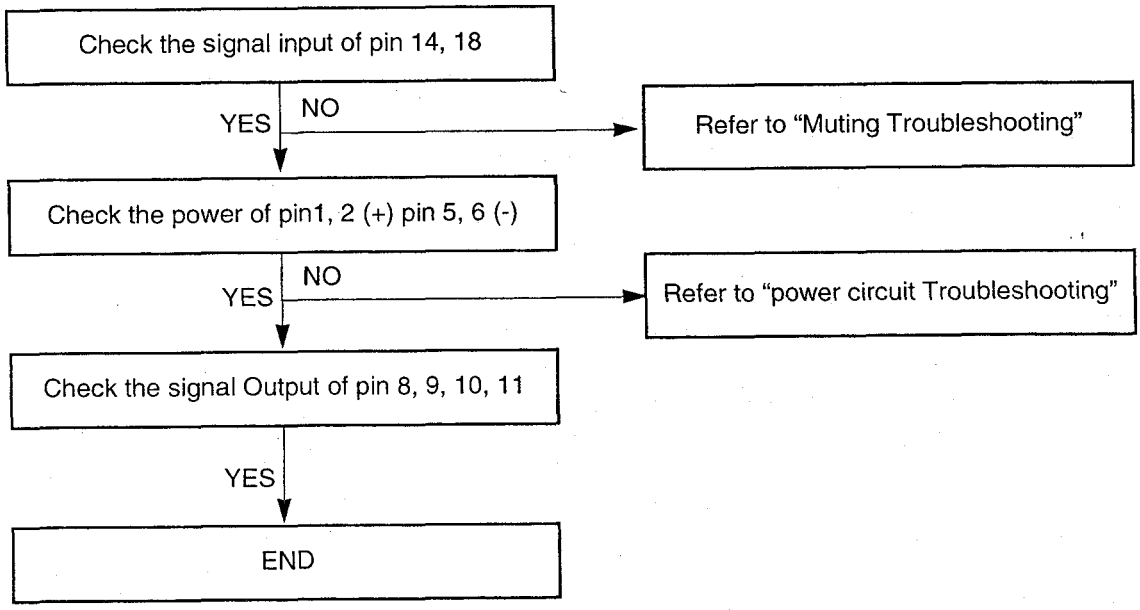
IC203 Troubleshooting



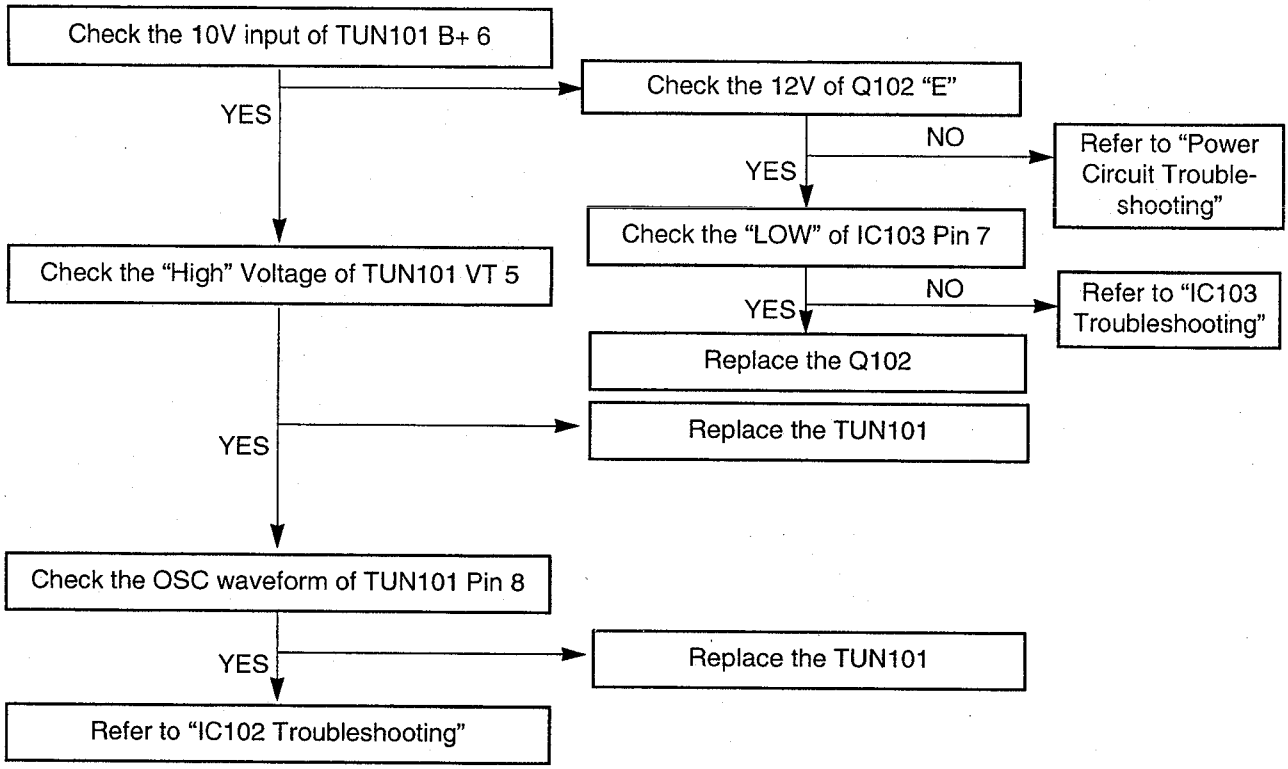
IC401 Troubleshooting



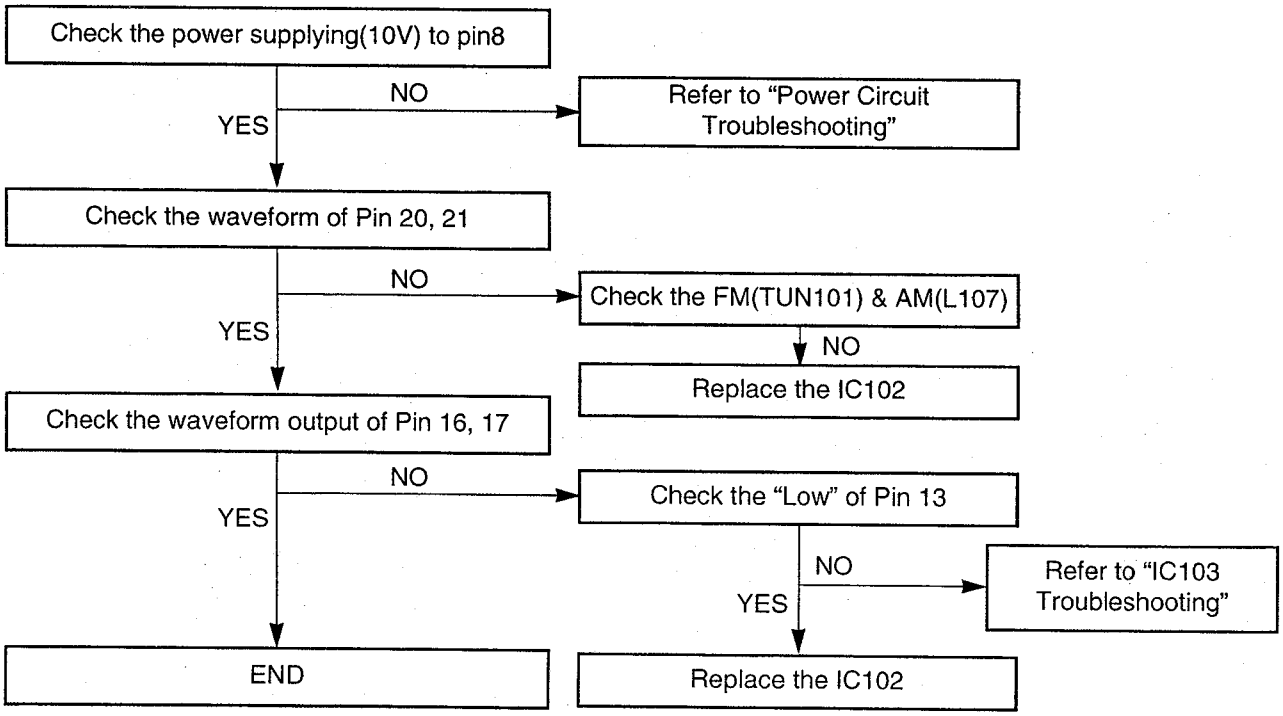
IC701 Troubleshooting


Check the signal input of pin 14, 18
YES
NO
Refer to "Muting Troubleshooting"
Check the power of pin1, 2 (+) pin 5, 6 (-)
YES
NO
Refer to "power circuit Troubleshooting"
Check the signal Output of pin 8, 9, 10, 11
YES
END

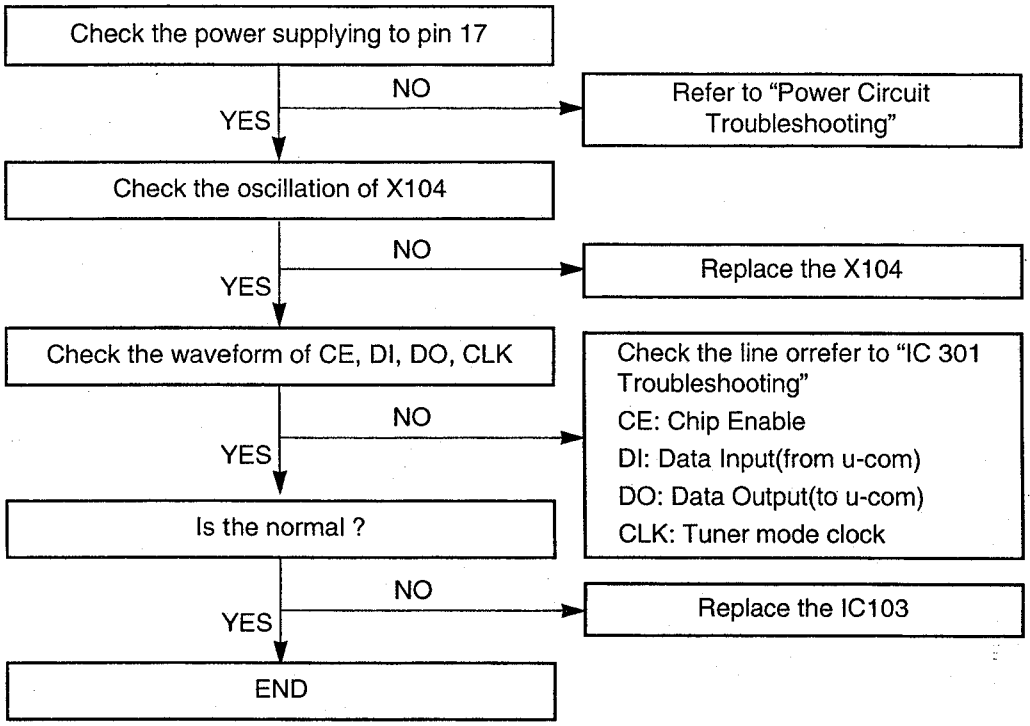
FM (TUN101)



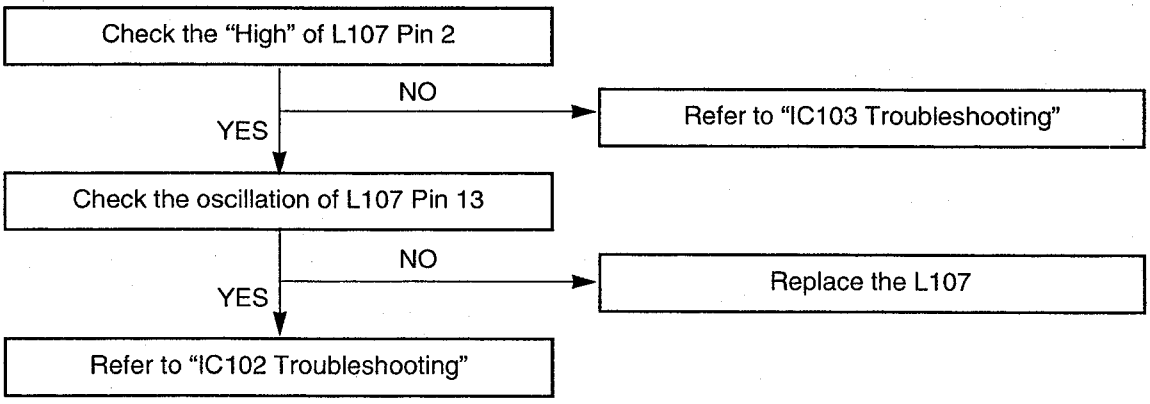
IC102 Troubleshooting



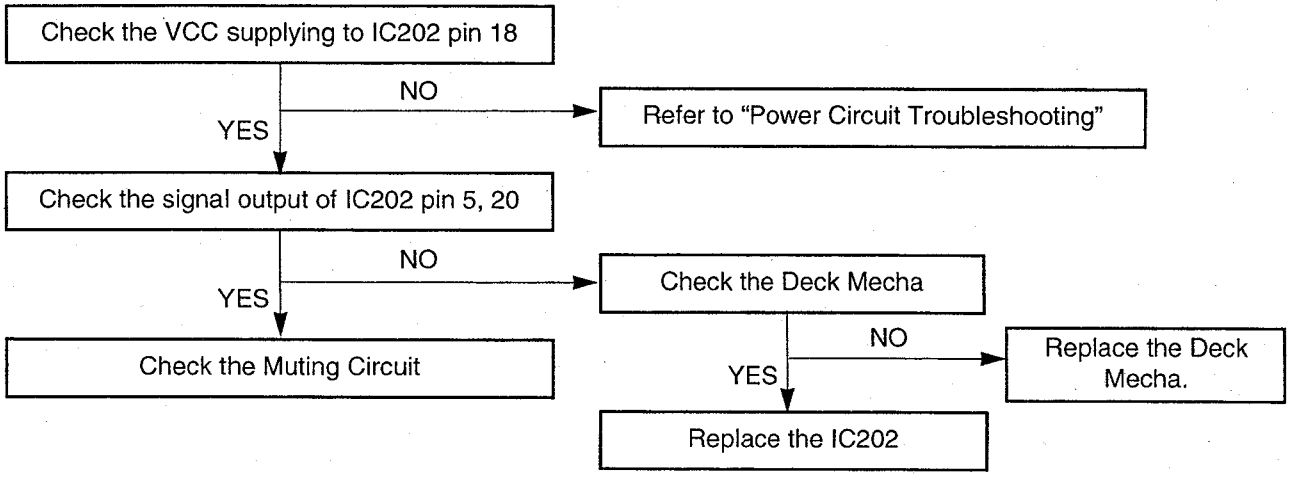
IC103 Troubleshooting



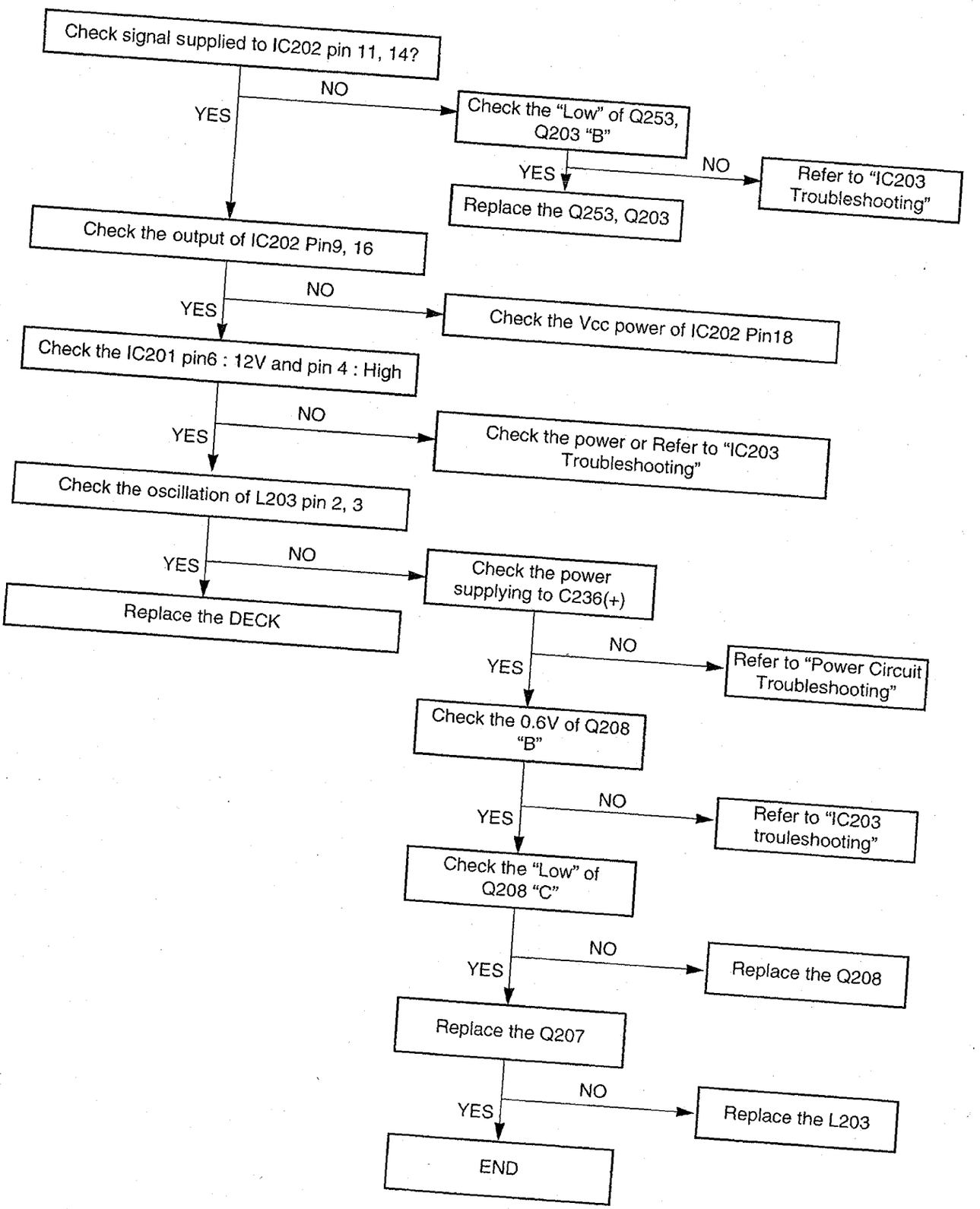
AM•COIL Troubleshooting



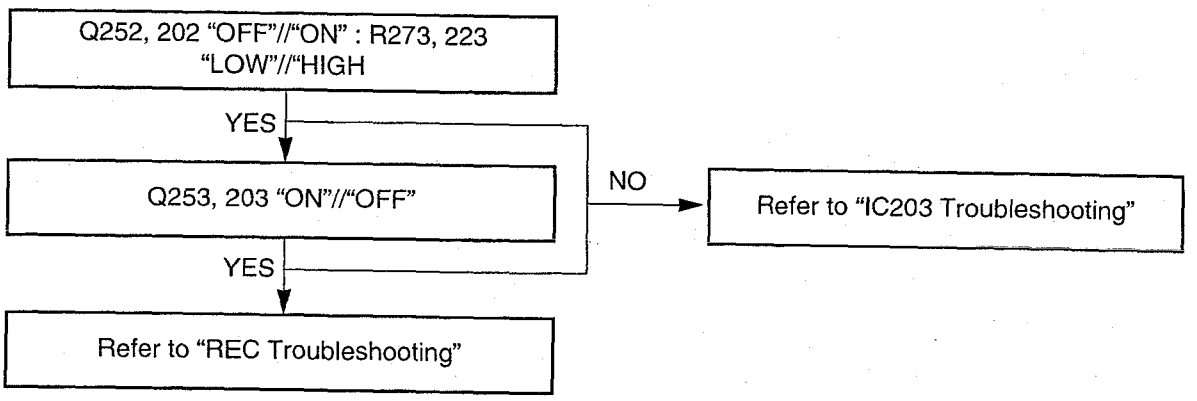
Play



REC (Q252, Q202 ON / R273, R223 High)



Dubbing("NORMAL or REC "//"HIGH")



MEMO

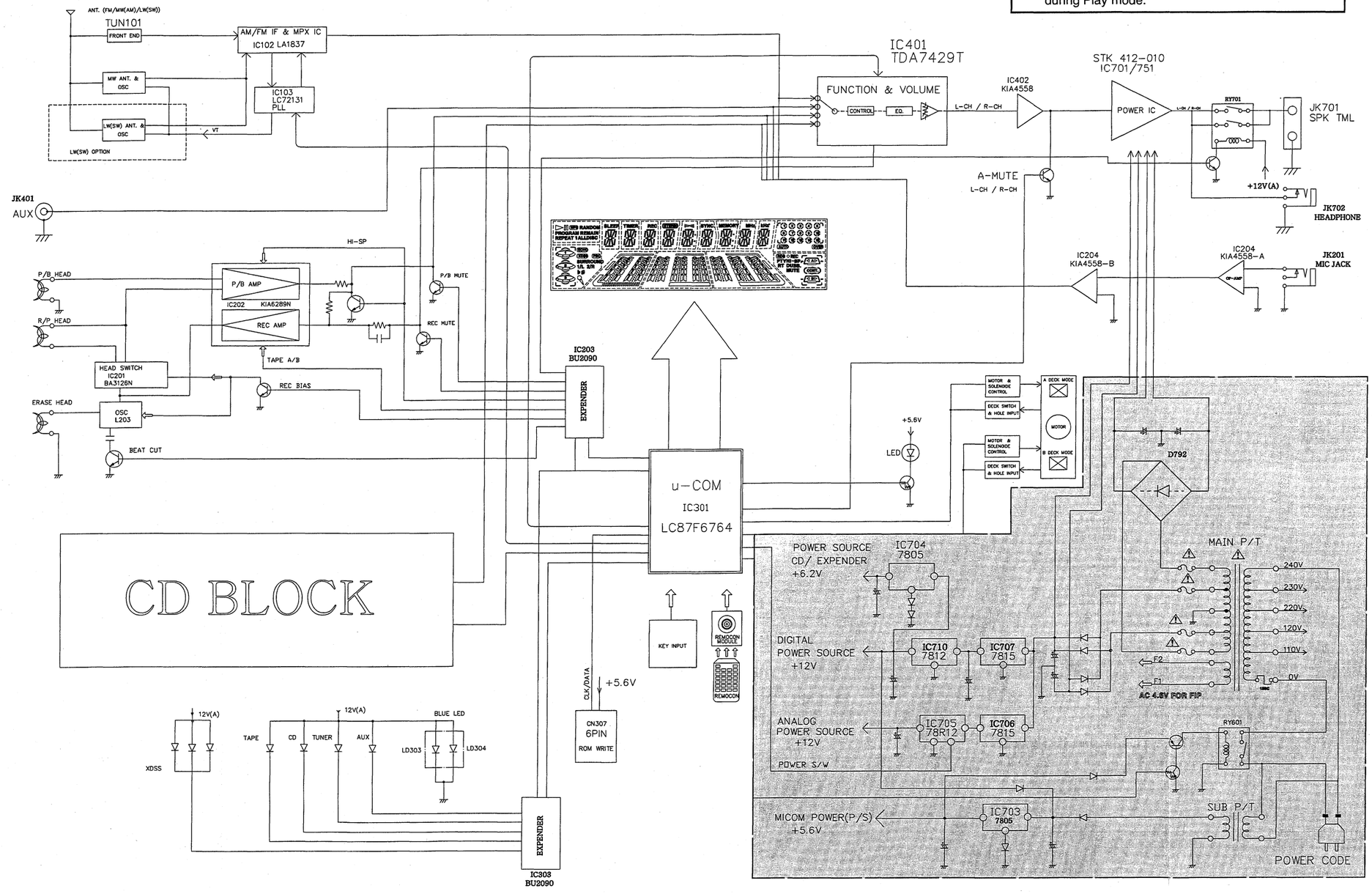
BLOCK DIAGRAM

NOTE: Warning

⚠ Parts that are shaded are critical With respect to risk of fire or electrical shock.

NOTE:

1. Shaded(■) parts are critical for safety.Replace only with specified part number.
2. Voltages are DC-measured with a digital voltmefer during Play mode.



*KEC TR.

NAME	R1	R2	NAME	R1	R2
C102M	10K	10K	C111M	10K	
C103M	22K	22K			
C104M	47K	47K			
C110M	4.7K				

BLOCK DIAGRAM
FFH-786

SCHEMATIC DIAGRAMS

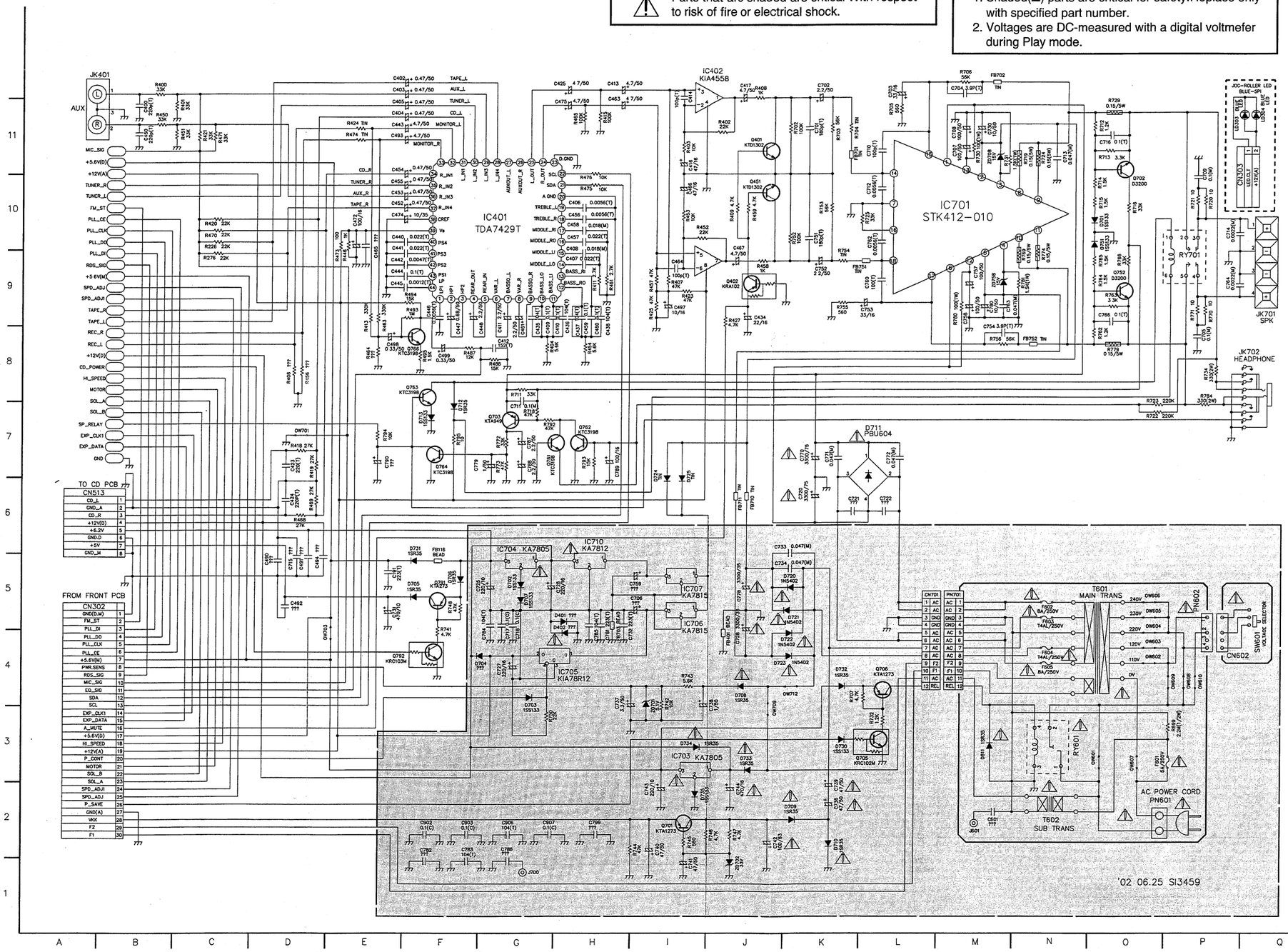
• MAIN SCHEMATIC DIAGRAM

NOTE: Warning

⚠ Parts that are shaded are critical With respect to risk of fire or electrical shock.

NOTE:

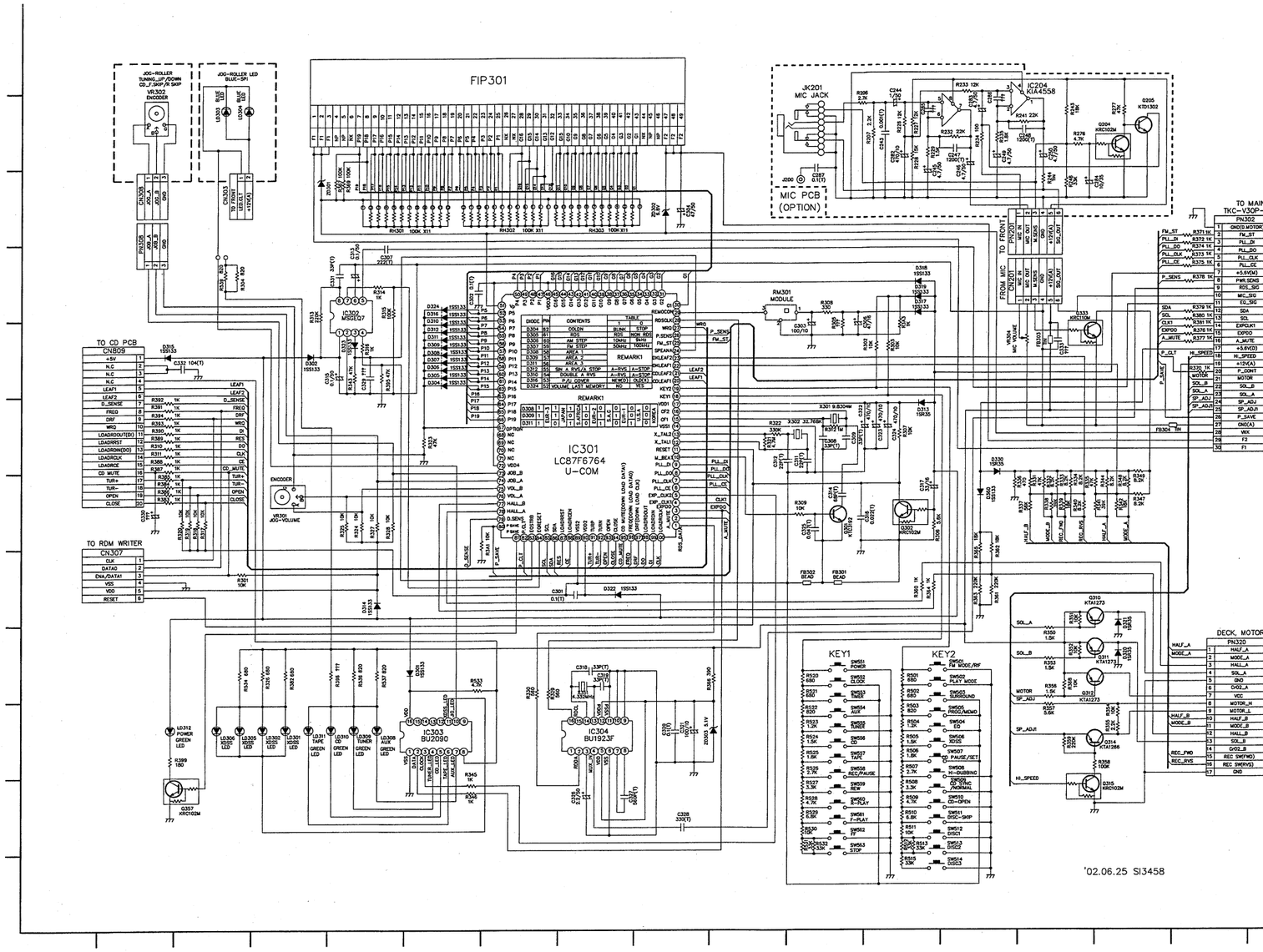
1. Shaded(■) parts are critical for safety.Replace only with specified part number.
2. Voltages are DC-measured with a digital voltmefer during Play mode.



LOCATION GUIDE

+12V(A)	A10	C766	09	Q402	J9	R780	M9
+12V(D)	A8	C770	K7	Q451	J10	R781	N9
+5.6V(D)	A11	C771	K7	Q701	I2	R784	P8
+5.6V(M)	A9	C772	L7	Q702	O10	R792	G7
C191	E5	C778	J5	Q703	G7	R793	H7
C400	B11	C779	F7	Q705	K3	R794	E7
C402	E12	C780	M9	Q706	L4	R795	F7
C403	E12	C781	H4	Q752	O9	RDS_SIG	A9
C404	E11	C782	F2	Q761	G7	REC_L	A8
C405	E11	C783	F2	Q762	H7	REC_R	A8
C406	H10	C784	G4	Q763	F8	RY601	N3
C407	H9	C785	H4	Q764	F7	RY701	P9
C408	H9	C786	G2	Q766	F8	SOL_A	A7
C409	G8	C787	G7	Q791	F5	SOL_B	A7
C410	H8	C788	G7	Q792	E4	SPD_ADJ	A9
C411	G8	C789	H7	R226	C10	SPD_ADJ	A9
C412	G8	C790	E7	R276	C9	SP_RELAY	A7
C413	H12	C799	H2	R400	B12	SW601	O4
C414	I11	C902	F2	R401	C11	T601	O5
C416	I11	C903	F2	R402	J11	T602	N2
C417	J12	C906	G2	R403	I11	TAPE_L	A9
C423	D7	C907	G2	R404	G8	TAPE_R	A9
C424	D6	CD_POWER	B8	R406	D8	TUNER_L	A10
C425	G12	CN302	A5	R407	I9	TUNER_R	A10
C434	J9	CN303	P10	R408	J12	ZD701	I3
C435	G8	CN513	A6	R409	J10	ZD702	J1
C436	H8	CN602	P4	R411	H9	ZD708	M11
C437	H8	CN701	L5	R413	E8	ZD758	M9
C438	H8	D401	H5	R415	H11		
C440	E10	D402	G5	R418	D7		
C441	D10	D611	M3	R419	D7		
C442	E9	D701	O10	R420	C10		
C443	E11	D702	G5	R421	C11		
C444	E9	D703	G3	R423	I9		
C445	E9	D704	F4	R424	E11		
C446	F9	D705	F5	R425	I9		
C447	F8	D706	F5	R427	J9		
C448	G8	D707	G5	R446	E9		
C450	B11	D708	J4	R450	B11		
C452	E10	D709	K2	R451	C11		
C453	E10	D710	K2	R452	I10		
C454	E11	D711	L7	R453	I10		
C455	E10	D712	F7	R454	H8		
C456	H10	D713	F7	R456	D8		
C457	H10	D720	K5	R457	I9		
C458	H10	D721	K5	R458	J9		
C459	H8	D722	J4	R459	J10		
C460	H8	D723	J4	R461	H9		
C461	G8	D724	I6	R463	E8		
C463	H11	D725	I6	R464	E8		
C464	I9	D730	K3	R465	H11		
C465	E9	D731	F6	R468	D6		
C466	I10	D732	K4	R469	D6		
C467	J10	D733	J3	R470	C10		
C472	E10	D734	I3	R471	C11		
C474	E10	D735	I2	R473	E9		
C475	G11	D751	O10	R474	E11		
C490	D5	EXP_CLK	A7	R475	H10		
C491	D5	EXP_DATA	A7	R476	H10		
C492	D5	F601	O3	R487	F8		
C493	E11	F602	N5	R488	G8		
C494	D5	F603	N5	R493	F9		
C497	I9	F604	N4	R494	E9		
C498	E8	F605	N4	R495	F8		
C499	F8	FB116	F6	R699	P3		
C601	M2	FB401	J4	R702	K11		
C701	K11	FB701	K11	R703	K11		
C702	K12	FB702	M12	R704	K11		
C703	L12	FB703	H4	R705	L11		
C704	M12	FB710	J6	R706	M12		
C705	P8	FB711	J6	R707	K4		
C706	H5	FB751	K9	R711	G8		
C707	M11	FB752	N8	R712	O11		
C708	M11	FM_ST	A10	R713	O11		
C709	P10	GND	A7	R714	O10		
C710	L11	HI_SPEED	A8	R715	O10		
C711	G7	IC401	G10	R716	O10		
C712	L10	IC402	I12	R718	G7		
C713	N11	IC701	M10	R719	N11		
C714	P10	IC703	I3	R720	P10		
C715	D5	IC704	G6	R721	P10		
C716	O11	IC705	H4	R722	O7		
C717	G4	IC706	I5	R723	O7		
C718	G4	IC707	I5	R724	N11		
C720	K6	IC710	H6	R725	L10		
C721	K6	J601	M2	R729	O11		
C722	L6	J700	G1	R730	M11		
C725	G5	JK401	A12	R731	M11		
C726	H5	JK701	O9	R732	L3		
C727	G4	JK702	P8	R734	P8		
C728	J4	LD303	P11	R741	F4		
C730	M11	LDJ304	Q11	R742	I3		
C731	E5	MIC_SIG	A11	R743	I4		
C732	I4	MOTOR	A8	R744	I2		
C733	J6	OW601	O3	R745	I2		
C734	J5	OW602	O4	R746	J2		
C736	K2	OW603	O4	R747	J2		
C737	H3	OW604	O5	R748	F5		
C738	J3	OW605	O5	R750	G3		
C739	K2	OW606	O5	R752	K10		
C740	I2	OW607	O3	R753	K10		
C741	I1	OW608	P4	R754	K9		
C742	J2	OW609	P4	R755	K9		
C743	I2	OW610	P4	R756	M8		
C744	J2	OW701	O7	R762	O8		
C751	K10	OW703	E4	R763	O9		
C752	K9	OW709	J3	R764	O9		
C753	K9	OW712	K4	R765	O9		
C754	M8	PLL_CE	A10	R766	O9		
C757	M9	PLL_CLK	A10	R769	N9		
C758	M9	PLL_DI	A9	R770	P9		
C759	H5	PLL_DO	A10	R771	P9		
C760	L9	PN601	O2	R772	G7		
C762	L10	PN602	P5	R773	G7		
C763	M9	PN701	M5	R774	N9		
C764	P9	Q401	J11	R779	O8		

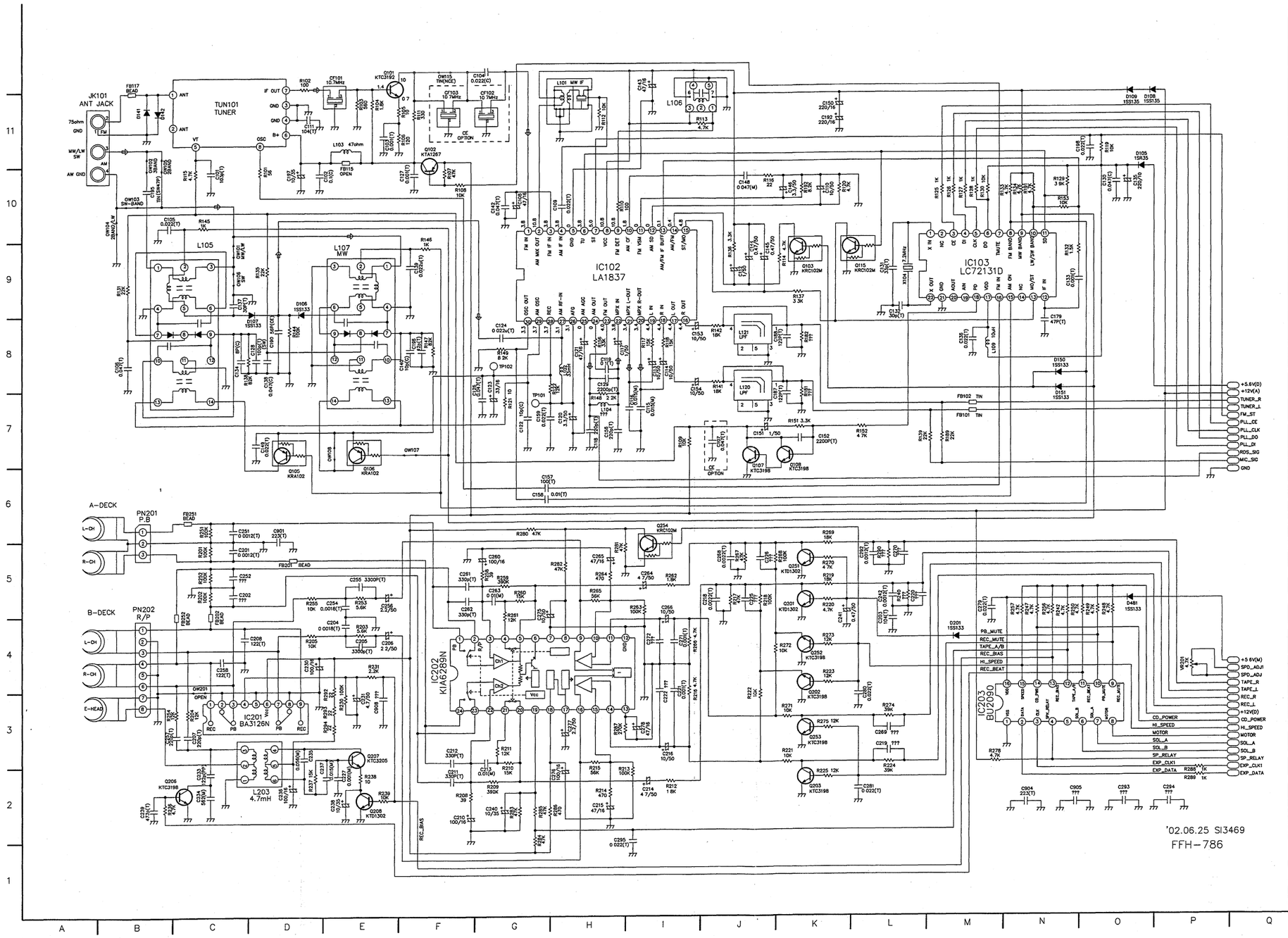
• FRONT SCHEMATIC DIAGRAM



LOCATION GUIDE

A_MUTE	J6	G14	H9	Q301	K6	R392	B7
A_MUTE	O8	G14	G10	Q302	L6	R393	B7
C243	L11	G15	H9	Q310	N5	R394	B7
C244	L11	G15	G10	Q311	O4	R395	E8
C245	L10	G16	G9	Q312	N4	R396	E4
C246	M10	G16	G10	Q314	O3	R399	C3
C247	M11	G2	I9	Q315	O2	R3A1	G5
C248	M11	G2	H10	Q333	N9	R3A3	L8
C249	M11	G3	I9	Q357	C2	R501	L4
C250	N11	G3	H10	R206	K11	R502	L4
C282	L11	G4	I9	R207	L11	R503	L3
C283	M11	G4	H10	R226	L11	R504	L3
C284	O10	G5	I9	R227	L11	R505	L3
C285	L11	G5	H10	R228	L10	R506	L3
C286	M11	G6	H9	R229	L11	R507	L3
C287	K10	G6	H10	R232	L11	R508	L2
C301	O5	G7	H9	R233	M12	R509	L2
C302	F9	G7	H10	R234	M11	R510	L2
C303	K8	G8	H9	R235	M11	R511	L2
C304	I10	G8	H10	R241	M11	R512	L2
C305	L8	G9	H9	R243	N11	R513	L2
C307	E9	G9	H10	R244	N10	R515	L1
C308	K7	HALF_A	P4	R246	N10	R520	K4
C309	K7	HALF_A	O6	R276	N11	R521	K4
C311	K7	HALF_B	P3	R277	O11	R522	K3
C312	J7	HALF_B	N6	R301	O5	R523	K3
C313	E9	HI_SPEED	M2	R302	L8	R524	K3
C314	K6	HI_SPEED	P8	R303	L8	R525	K3
C315	E8	IC204	N12	R304	O9	R526	K3
C316	L6	IC301	H7	R305	K8	R527	K2
C317	L6	IC302	E9	R306	L6	R528	K2
C318	H4	IC303	F3	R307	L7	R529	K2
C319	H4	IC304	H3	R308	K9	R530	K2
C320	I3	J200	J10	R309	K6	R531	K2
C321	I3	JK201	K12	R310	B7	R532	K2
C322	K7	LD301	D3	R311	B7	R533	F4
C323	L7	LD302	D3	R312	K7	R534	C4
C324	L7	LD303	C11	R313	D8	R536	E4
C325	K6	LD304	C11	R314	E9	R537	E4
C326	H2	LD305	C3	R315	E9	R539	C9
C327	H2	LD306	C3	R316	E8	REC_FWD	P3
C328	I2	LD308	E3	R317	C6	REC_FWD	N6
C329	E8	LD309	E3	R318	C6	REC_RVS	P3
C330	B6	LD310	E3	R319	C6	REC_RVS	N6
C331	E9	LD311	D3	R320	C6	RES	C7
C332	B8	LD312	C3	R321	J7	RES	H5
C333	N8	LEAF1	C8	R322	J7	RH301	E10
CD_MUTE	J7	LEAF1	I8	R323	F7	RH302	G10
CD_MUTE	H5	LEAF2	C8	R324	E6	RH303	H10
CE	H5	LEAF2	I8	R325	E6	RM301	J9
CE	C7	MODE_A	P4	R326	D4	SCL	G5
CLK	I5	MODE_A	O6	R327	D4	SCL	O9
CLK	C7	MODE_B	P3	R328	E6	SDA	G5
CLK1	O8	MODE_B	N6	R329	G4	SDA	O9
CLK1	J6	MOTOR	M4	R330	G4	SOL_A	M4
CLOSE	C6	MOTOR	P8	R331	N6	SOL_A	P8
CLOSE	H5	OPEN	H5	R332	N6	SOL_B	M4
CN201	M9	OPEN	C6	R333	N6	SOL_B	P8
CN303	C10	P1	G9	R334	N6	SP_ADJ	M3
CN307	B5	P1	G10	R335	N6	SP_ADJ	P7
CN308	B10	P10	F10	R336	N6	SP_ADJ	M3
CN809	B6	P10	F8	R337	N6	SP_ADJ	P7
D301	F4	P11	F10	R338	N6	SW501	M4
D302	D8	P11	F8	R339	N6	SW502	M4
D304	F8	P12	F10	R340	N6	SW503	M4
D305	F8	P12	F8	R341	O6	SW504	M3
D306	F8	P13	E10	R342	O6	SW505	M3
D307	F8	P13	F8	R343	E8	SW506	M3
D308	F8	P14	E10	R344	O6	SW507	M3
D309	F8	P14	F8	R345	F3	SW508	M3
D310	F8	P15	E10	R346	F2	SW509	M2
D311	F8	P15	F8	R347	O6	SW510	M2
D312	F8	P16	E10	R348	O6	SW511	M2
D313	L7	P16	F8	R349	O6	SW512	M2
D314	E5	P17	E10	R350	N4	SW513	M2
D315	B8	P17	F7	R351	N5	SW514	M1
D316	F9	P18	E10	R352	N4	SW551	K4
D317	L9	P18	F7	R353	N4	SW552	K4
D318	L9	P19	F7	R354	O3	SW553	K4
D319	L9	P19	E10	R355	O3	SW554	K3
D320	O4	P2	G9	R356	N4	SW555	K3
D321	O4	P2	G10	R357	N3	SW556	K3
D322	H5	P3	G9	R358	O3	SW557	K3
D323	E8	P3	F10	R359	N3	SW558	K3
D324	F9	P4	O9	R360	L5	SW559	K2
D330	M7	P4	F10	R361	M5	SW560	K2
D360	M6	P5	F9	R362	M5	SW561	K2
DI	I5	P5	F10	R363	M5	SW562	K2
DI	C7	P6	F9	R364	L5	SW563	K2
DO	I5	P6	F10	R365	M5	TUR+	H5
DO	C7	P7	F10	R366	J4	TUR+	C6
DRF	C7	P7	F8	R367	E10	TUR-	H5
DRF	I5	P8	F10	R368	N4	TUR-	O8
D_SENSE	C7	P8	F8	R369	E10	VR301	D8
D_SENSE	F5	P9	F10	R370	P8	VR302	B12
EXPDO	O8	P9	F8	R371	P10	VR304	M8
EXPDO	J6	PLL_CE	I6	R372	P10	WRQ	C7
FB301	K5	PLL_CE	O9	R373	P9	WRQ	I8
FB302	K5	PLL_CLKI	I6	R374	P9	X301	K7
FB303	N8	PLL_CLKO	I9	R375	P9	X302	K7
FB304	O7	PLL_DI	J7	R376	P8	X351	H4
FIP301	F12	PLL_DI	O10	R377	P8	ZD301	E10
FM_ST	O10	PLL_DO	J7	R378	P9	ZD302	I10
FM_ST	J8	PLL_DO	O9	R379	P9	ZD303	I3
FREQ	C7	PN201	M10	R380	P9		
FREQ	H5	PN302	P10	R381	P8		
G1	I9	PN308	B9	R382	D4		
G1	H10	PN320	P4	R383	B6		
G10	H9	P_CLT	G5	R384	B6		
G10	H10	P_CLT	O8	R385	B6		
G11	H9	P_SAVE	G5	R386	B6		
G11	G10	P_SAVE	O8	R387	B7		
G12	H9	P_SENS	O9	R388	B7		
G12	G10	P_SENS	I8	R389	B7		
G13	H9	Q204	O11	R390	B7		
G13	G10	Q205	O11	R391	B7		

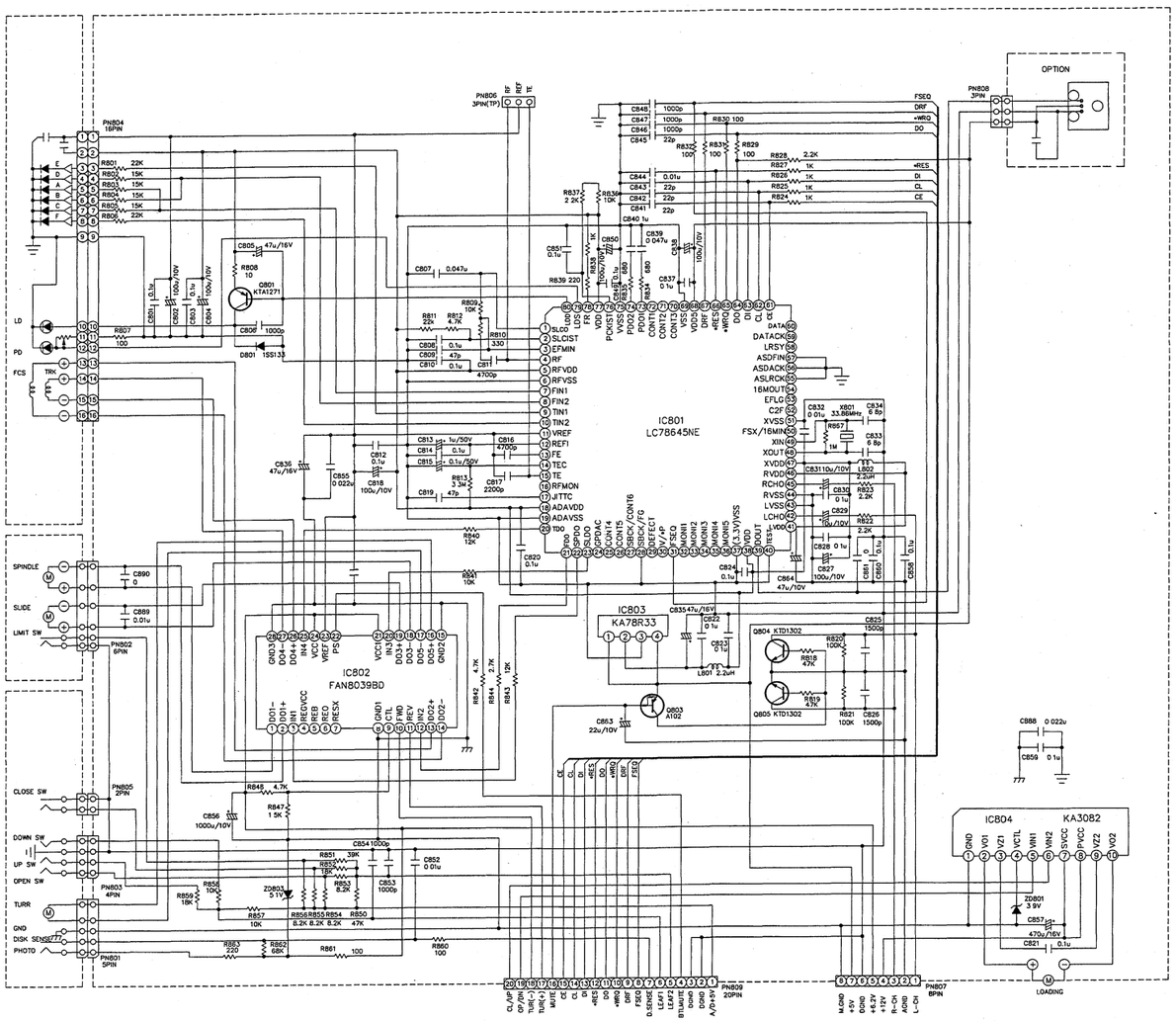
• TUNER/DECK/MIC SCHEMATIC DIAGRAM



LOCATION GUIDE

+12V(A)	Q7	C266	I5	R115	C10	REC_L	Q3
+12V(D)	Q3	C268	J5	R116	J10	REC_R	Q3
+5.6V(D)	Q7	C269	L3	R117	I8	SOL_A	Q3
+5.6V(M)	D4	C270	L5	R118	I8	SOL_B	Q3
C101	C10	C271	I4	R119	O11	SPD_ADJ	D4
C102	E10	C272	I4	R120	K10	SP_RELAY	Q3
C103	E11	C275	Q4	R121	G7	TAPE_L	Q3
C104	F12	C276	H2	R122	H7	TAPE_R	Q4
C105	B10	C277	H3	R125	M10	TUN101	C11
C106	B8	C278	I3	R126	M10	TUNER_L	Q7
C107	J7	C279	M5	R127	M10	TUNER_R	Q7
C108	G10	C280	L3	R128	M10	VR201	P4
C109	H10	C281	L2	R129	N10	X104	L9
C110	K10	C292	L5	R130	M10		
C111	D11	C293	O2	R131	B9		
C112	J9	C294	P2	R132	N9		
C113	I8	C295	H1	R133	N10		
C114	I8	C901	D6	R134	N10		
C115	I7	C904	N2	R135	D9		
C116	I7	C905	N2	R136	J9		
C117	H8	C908	E3	R137	K9		
C118	H7	CD_POWER	E3	R138	C8		
C119	H8	CF101	E12	R139	L7		
C120	H7	CF102	G11	R141	J8		
C121	H8	CF103	F11	R142	J8		
C122	G7	D105	O11	R144	D8		
C123	G7	D106	D9	R145	C10		
C124	G8	D107	D8	R146	F10		
C126	G7	D108	O11	R147	F8		
C127	F10	D109	O11	R148	H7		
C128	D8	D141	B11	R149	G8		
C129	H8	D142	B11	R151	K7		
C130	O10	D150	N8	R152	L7		
C131	L9	D151	N7	R153	N10		
C132	L9	D201	M4	R156	H8		
C133	N9	D481	O5	R181	K7		
C134	C8	EXP_CLK	O2	R182	K8		
C135	O10	EXP_DATA	O2	R189	M7		
C136	M8	FB101	M7	R191	N10		
C137	C9	FB102	M7	R192	K10		
C138	D8	FB115	E10	R201	C5		
C139	F9	FB117	B12	R202	C5		
C140	F8	FB201	D5	R203	E4		
C142	G10	FB202	C4	R204	C3		
C143	I11	FB251	C6	R205	D4		
C144	J9	FB252	C4	R208	F2		
C145	J9	FM_ST	G7	R209	G2		
C146	K10	GND	Q6	R210	G2		
C148	J10	HI_SPEED	Q3	R211	G3		
C149	D7	IC102	H9	R212	I2		
C150	K11	IC103	M9	R213	H2		
C151	J7	IC201	C3	R214	H2		
C152	K7	IC202	F4	R215	H2		
C153	I8	IC203	M3	R216	I3		
C154	I7	JK101	A11	R217	J5		
C156	H7	L101	H12	R218	J5		
C157	G6	L102	H8	R219	K5		
C158	G6	L103	E11	R220	K5		
C159	G7	L104	H7	R221	K3		
C179	N8	L105	C9	R222	J3		
C187	K7	L106	I11	R223	K4		
C188	K8	L107	E9	R224	L2		
C190	D8	L109	M8	R225	K2		
C192	K11	L120	J8	R230	E3		
C195	B10	L121	J8	R231	E4		
C196	F8	L203	D2	R236	B2		
C197	D10	MIC_SIG	Q6	R237	D2		
C198	O11	MOTOR	Q3	R238	E2		
C201	C5	OW101	C9	R239	E2		
C202	C5	OW102	B10	R240	L5		
C203	L4	OW103	B10	R242	N4		
C204	E4	OW104	B10	R247	N4		
C205	E4	OW105	B10	R248	O4		
C206	E4	OW106	C9	R249	O4		
C207	C3	OW107	F7	R250	N4		
C208	D4	OW108	E7	R251	C6		
C210	F2	OW115	F12	R252	C5		
C211	F2	OW201	C4	R253	E5		
C212	F3	PLL_CE	Q7	R254	B3		
C213	G2	PLL_CLK	Q7	R255	D5		
C214	I2	PLL_DI	Q7	R256	N4		
C215	H2	PLL_DO	Q7	R257	N4		
C216	I3	PN201	B6	R258	G5		
C218	J5	PN202	B5	R259	G5		
C219	L3	Q101	E12	R260	G5		
C220	L5	Q102	F11	R261	G4		
C221	I3	Q103	K9	R262	I5		
C222	I3	Q105	D6	R263	I5		
C225	J5	Q106	E6	R264	H5		
C226	J5	Q107	J6	R265	H5		
C227	E2	Q108	K6	R266	I4		
C230	D4	Q115	L9	R267	J5		
C231	E3	Q201	K5	R268	K5		
C233	C2	Q202	K3	R269	K6		
C234	C2	Q203	K2	R270	K5		
C235	D3	Q206	B2	R271	K3		
C236	D2	Q207	E3	R272	K4		
C237	E2	Q208	E2	R273	K4		
C238	E2	Q251	K5	R274	L3		
C239	B2	Q252	K4	R275	K3		
C240	G2	Q253	K3	R278	M3		
C241	K4	Q254	I6	R280	G6		
C242	L5	R101	D10	R281	H5		
C251	C6	R102	D12	R282	H5		
C252	C5	R103	E11	R283	G2		
C254	E5	R104	E11	R284	G1		
C255	E5	R105	F11	R285	G2		
C256	E5	R106	F11	R286	H2		
C257	B3	R107	F10	R287	H3		
C258	C4	R108	F10	R288	P2		
C260	G5	R109	I7	R289	P2		
C261	F5	R110	H10	R290	L5		
C262	F5	R111	F11	R292	E3		
C263	G5	R112	H11	R293	E3		
C264	I5	R113	I11	R294	E3		
C265	H5	R114	K9	RDS_SIG	Q7		

• CDP SCHEMATIC DIAGRAM



LOCATION GUIDE

•RES	L10	R819	K5
•RES	I4	R820	L5
•WRQ	L10	R821	L5
•WRQ	J4	R822	L7
C801	E9	R823	L7
C802	E9	R824	K10
C803	F9	R825	K10
C804	F9	R826	K10
C805	F9	R827	K10
C806	F8	R828	K10
C807	H9	R829	K10
C808	H8	R830	J10
C809	H8	R831	J10
C810	H8	R832	J10
C811	H8	R834	J9
C812	G7	R835	J9
C813	H7	R836	I10
C814	H7	R837	I10
C815	H7	R838	I9
C816	H7	R839	I9
C817	H7	R840	H6
C818	G7	R841	H6
C819	H7	R842	H5
C820	I6	R843	I5
C821	M3	R844	H5
C822	J6	R847	F4
C823	J5	R848	F4
C824	K6	R850	G3
C825	L6	R851	G3
C826	L5	R852	G3
C827	K6	R853	G3
C828	K6	R854	G3
C829	L7	R855	G3
C830	L7	R856	G3
C831	K7	R857	F3
C832	K8	R858	F3
C833	L7	R859	E3
C834	L8	R860	H3
C835	J6	R861	G3
C836	F7	R862	F3
C837	J9	R863	F3
C838	J9	R867	L8
C839	J9	X801	L8
C840	J9	ZD801	M3
C841	J10	ZD803	F3
C842	J10		
C843	J10		
C844	J10		
C845	J10		
C846	J10		
C847	J10		
C848	J11		
C849	J9		
C850	I9		
C851	I9		
C852	H3		
C853	G3		
C854	G4		
C855	G7		
C856	F4		
C857	M3		
C858	L6		
C859	M4		
C860	L6		
C861	L6		
C863	I5		
C864	K6		
C888	M5		
C889	E6		
C890	E6		
CE	L10		
CE	I4		
CL	L10		
CL	I4		
D801	F8		
DI	L10		
DI	I4		
DO	L10		
DO	I4		
DRF	L11		
DRF	J4		
FSEQ	L11		
FSEQ	J4		
IC801	J8		
IC802	G5		
IC803	J6		
IC804	M4		
L801	J5		
L802	L7		
PN801	E3		
PN802	E5		
PN803	E3		
PN804	E10		
PN805	E4		
PN806	H11		
PN807	L2		
PN808	M11		
PN809	K2		
Q801	F9		
Q803	J5		
Q804	K6		
Q805	K5		
R801	E10		
R802	E10		
R803	E10		
R804	E10		
R805	E10		
R806	E10		
R807	E8		
R808	F9		
R809	H9		
R810	H8		
R811	H9		
R812	H9		
R813	H7		
R818	K5		

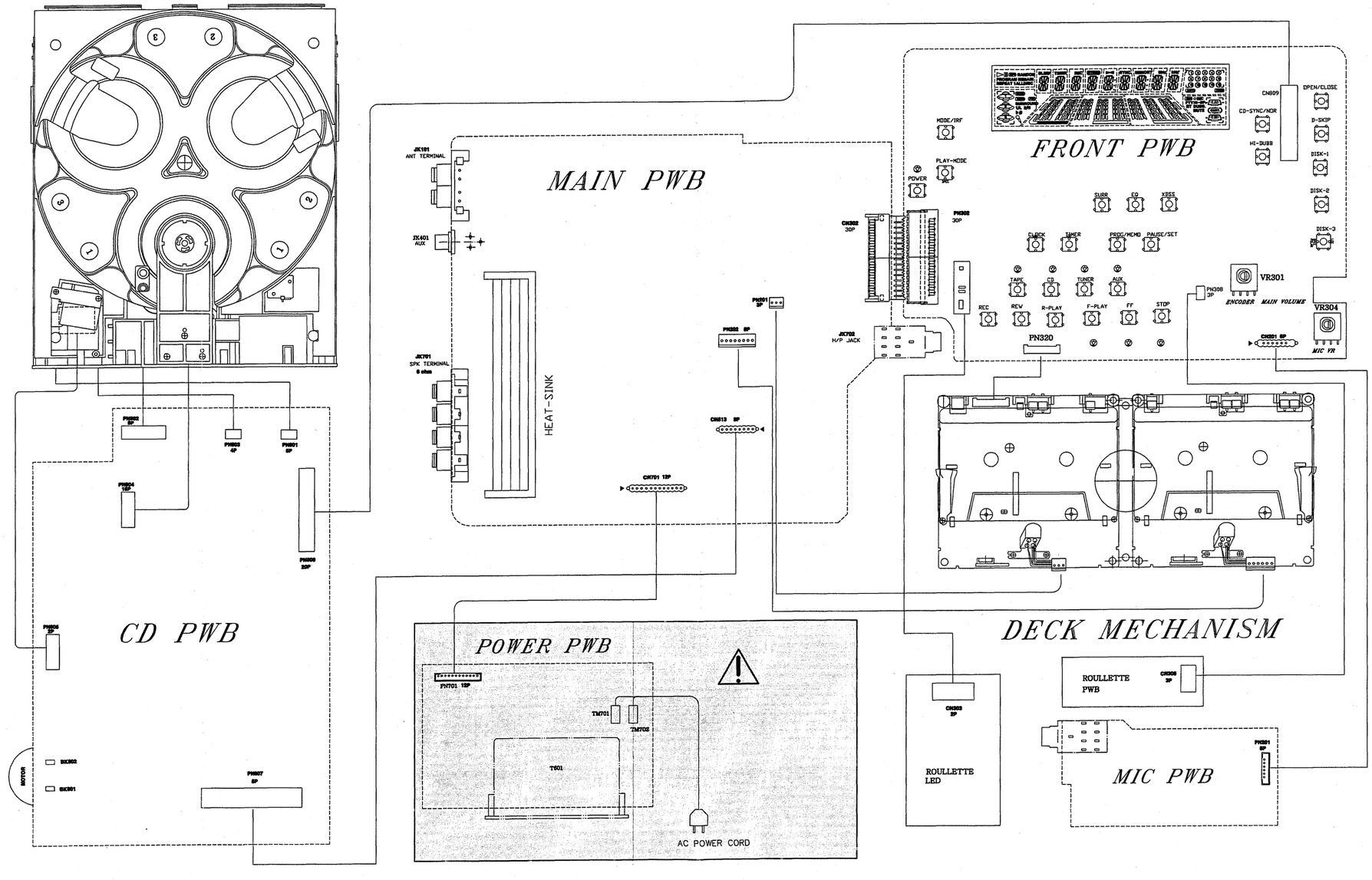
WIRING DIAGRAM

NOTE: Warning
⚠ Parts that are shaded are critical With respect to risk of fire or electrical shock.

NOTE:
1. Shaded(■) parts are critical for safety.Replace only with specified part number.
2. Voltages are DC-measured with a digital voltmefer during Play mode.

3CD CHANGER MECHANISM ASSY

FFH-786WIRING DIAGRAM



*KEC TR.

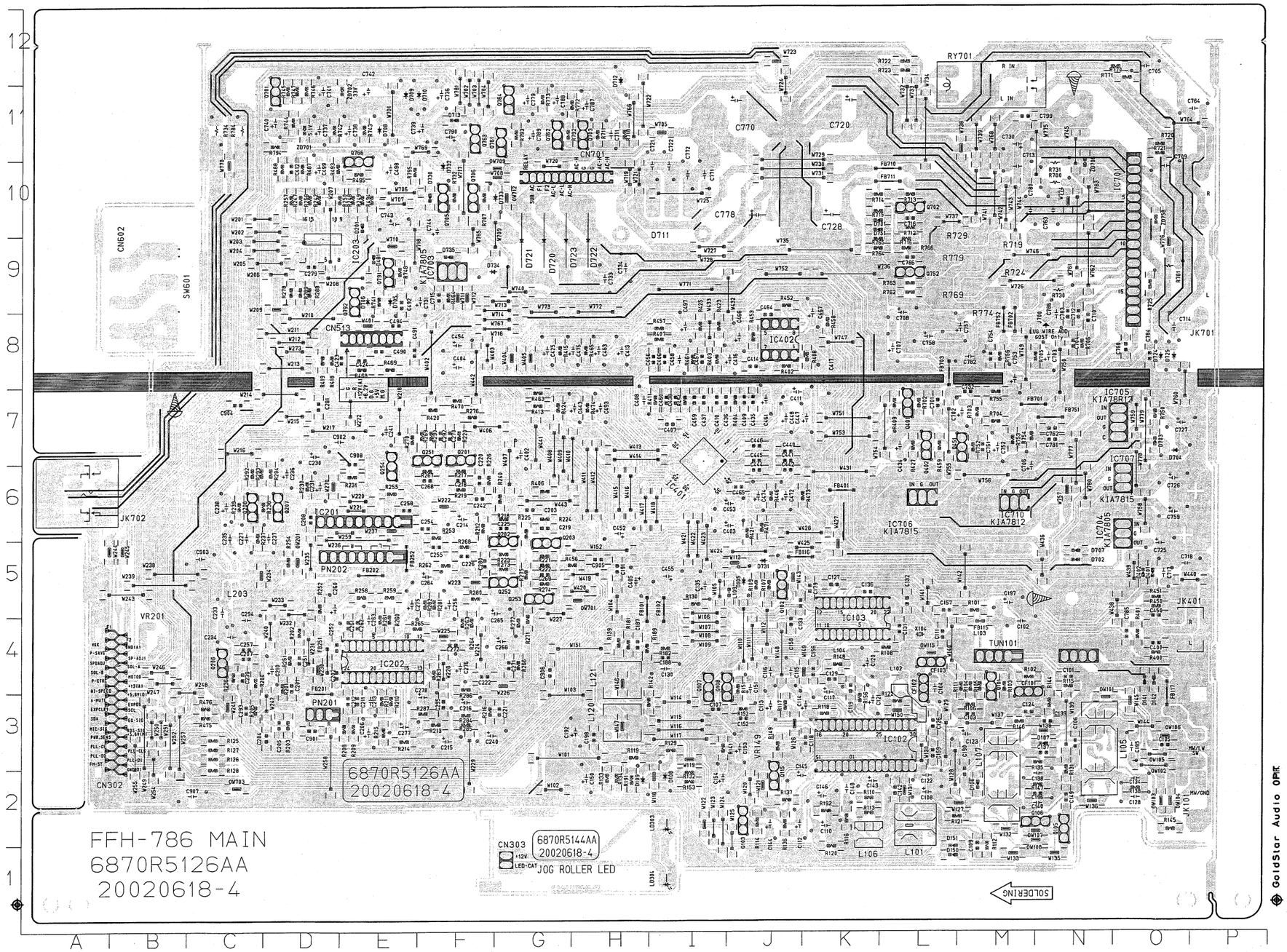
NAME	R1	R2
C102M	10K	10K
C103M	22K	22K
C104M	47K	47K
C110M	4.7K	

NAME	R1	R2
C111M	10K	

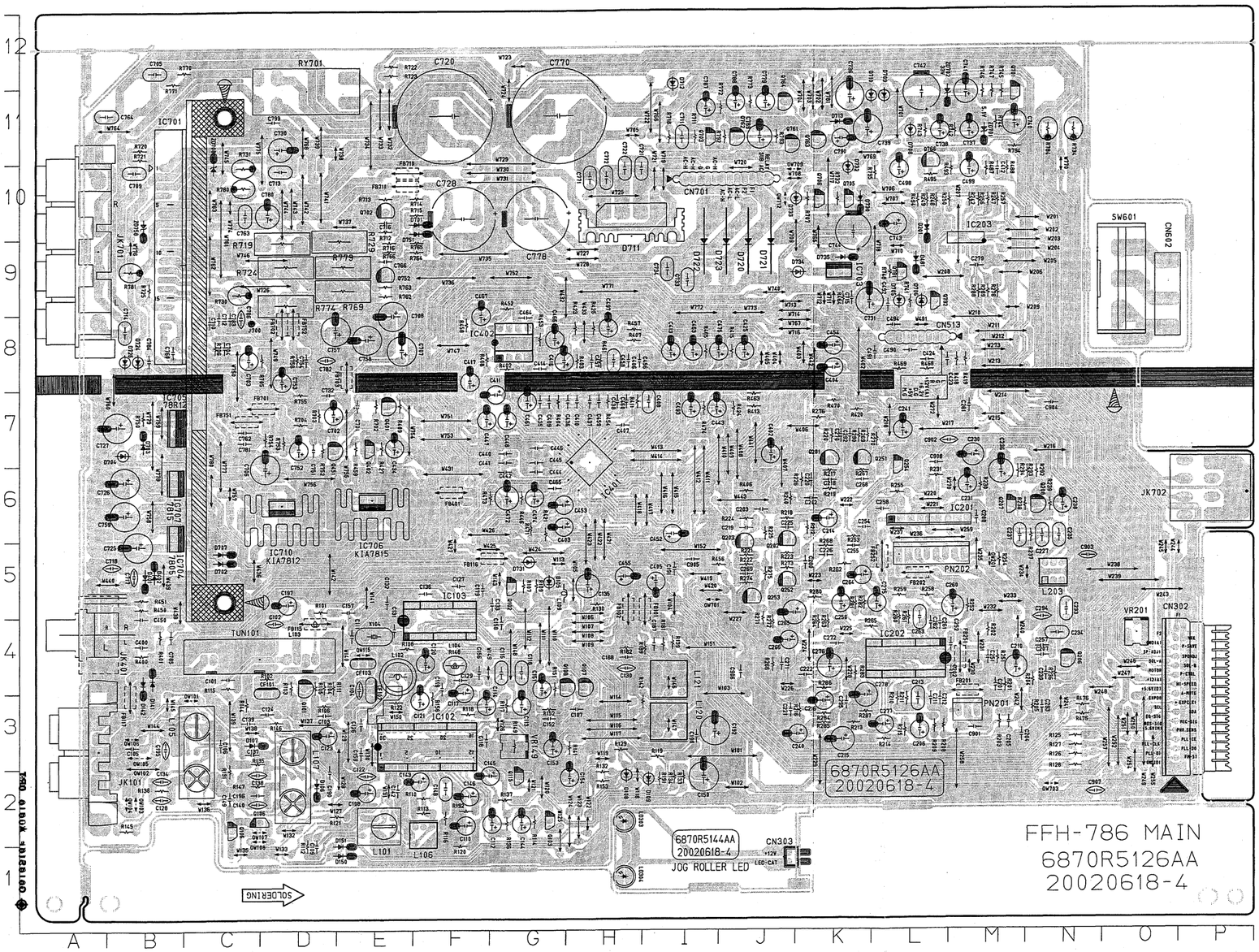
SCHEMATIC DIAGRAM
FFH-786 WIRING DIAGRAM

PRINTED CIRCUIT DIAGRAMS

• MAIN P.C. BOARD (SOLDER SIDE)

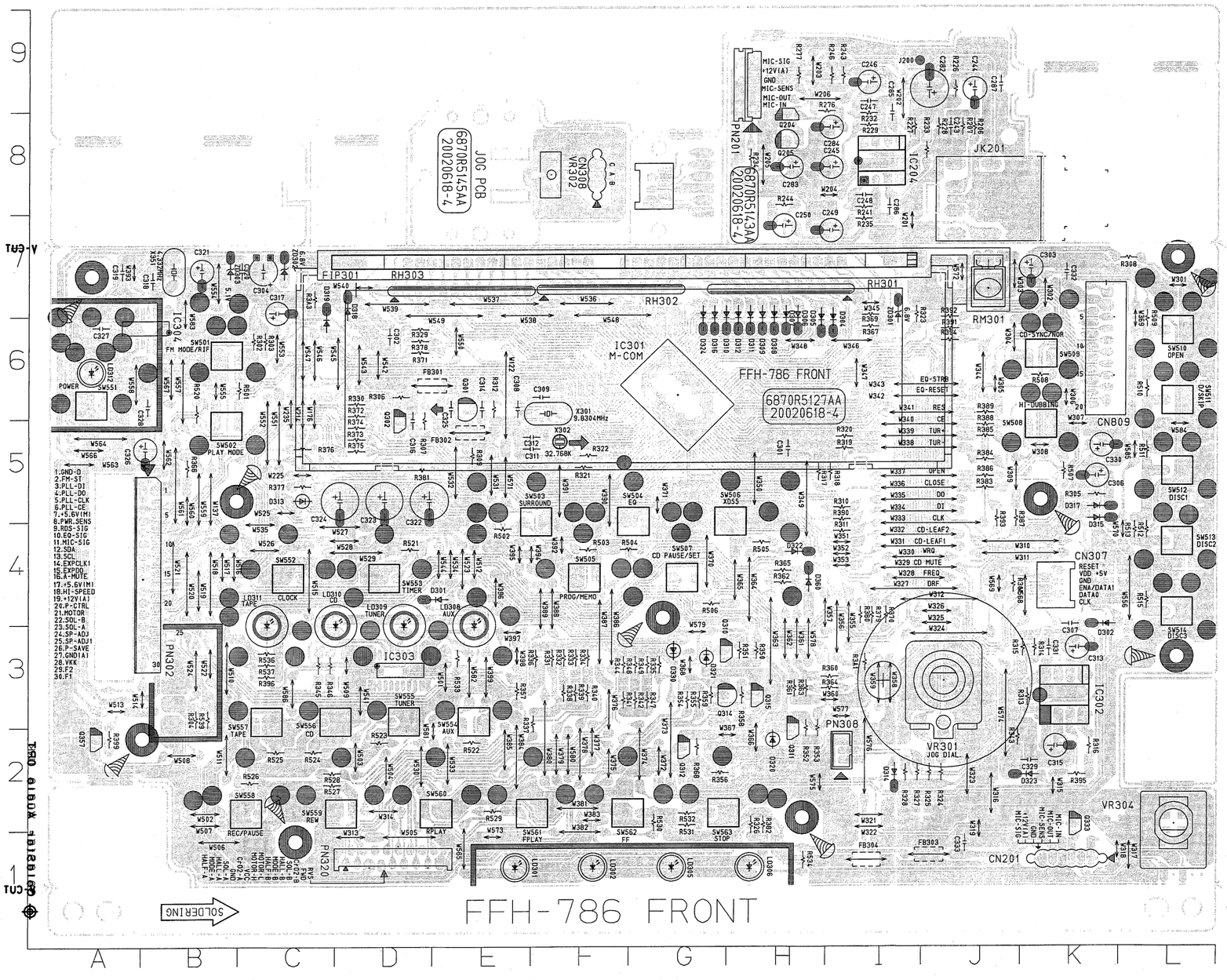


• MAIN P.C. BOARD (COMPONENT SIDE)



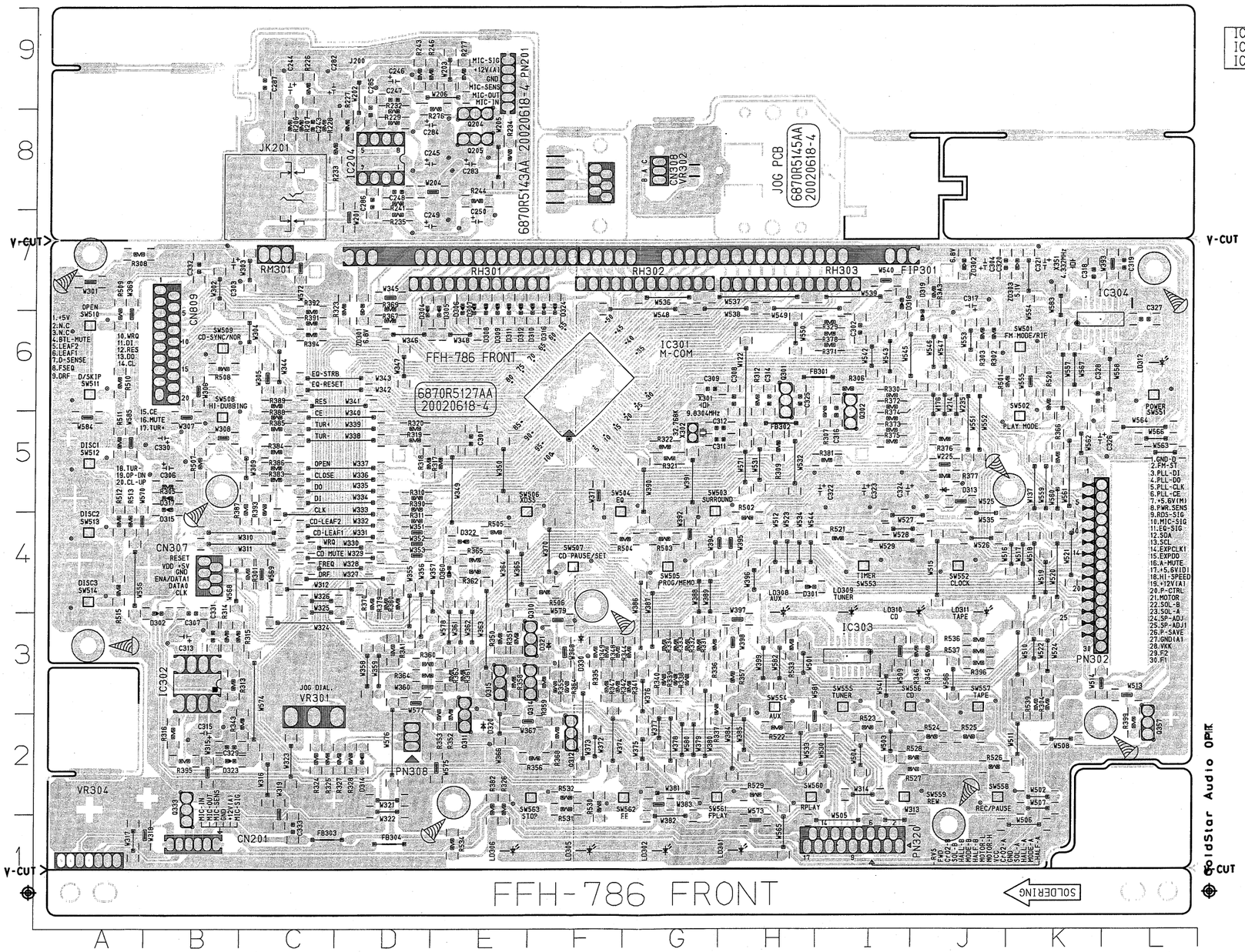
C101	C4	C220	K6	C452	I6	C780	D10	FB751	C7	R101	D5	R238	N6	R465	I8
C102	D4	C221	J3	C453	G6	C781	C7	FB752	D8	R102	D4	R239	N6	R468	L8
C103	D3	C222	K4	C454	K8	C782	D8	IC102	E3	R103	D4	R240	J6	R469	L8
C104	E4	C225	J6	C455	H5	C783	C8	IC103	E4	R104	D4	R242	M10	R470	K7
C105	B3	C226	K5	C456	H8	C784	B8	IC201	L6	R105	D4	R247	M10	R471	G6
C106	C3	C227	N6	C457	H8	C785	B4	IC202	L4	R106	D3	R248	L10	R473	G6
C107	H3	C230	M7	C458	H8	C786	C8	IC402	G8	R107	G5	R249	L10	R474	I7
C108	E2	C231	M6	C459	H7	C787	I11	IC701	B9	R108	E4	R250	M10	R475	N3
C109	D1	C233	N5	C460	H7	C788	J11	IC703	K9	R109	G5	R251	M4	R476	N3
C110	F2	C234	N4	C461	G7	C789	J11	IC704	B6	R110	F2	R252	M5	R487	M10
C111	E4	C235	N6	C463	I8	C790	K11	IC705	B7	R111	D4	R253	K6	R488	M10
C112	G2	C236	M6	C464	G8	C799	D11	IC706	E6	R112	D1	R254	M5	R493	M10
C113	G3	C237	M6	C465	G6	C901	M3	IC707	B6	R113	F2	R255	L6	R494	L10
C114	F3	C238	N6	C466	G8	C902	M7	IC710	D6	R114	G2	R256	M10	R495	L10
C115	G4	C239	N4	C467	F8	C903	N5	J700	C8	R115	C4	R257	M10	R702	E7
C116	G4	C240	K3	C472	G6	C904	N7	JK101	A3	R116	F2	R258	L5	R703	D7
C117	F3	C241	L7	C474	G6	C905	I5	JK401	A4	R117	G3	R259	L5	R704	D7
C118	F3	C242	K6	C475	J8	C906	J4	JK701	A9	R118	F3	R260	L4	R705	D8
C119	F4	C251	M4	C490	L6	C907	N2	JK702	P6	R119	I3	R261	L4	R706	C8
C120	F4	C252	M4	C491	L6	C908	L6	L101	E2	R120	F1	R262	K5	R707	K10
C121	F3	C254	K6	C492	L9	CF101	D3	L102	E4	R121	E2	R263	K4	R711	I11
C122	E2	C255	K5	C493	I7	CF102	E4	L103	D4	R122	E3	R264	K4	R712	E10
C123	D3	C256	K5	C494	L8	CF103	E4	L104	F4	R125	N3	R265	L4	R713	E10
C124	D3	C257	N4	C497	H8	CN302	P3	L105	C3	R126	N3	R266	J4	R714	F10
C125	E3	C258	L6	C498	L10	CN303	J11	L106	F2	R127	N3	R267	K6	R715	F10
C127	F5	C260	M5	C499	M10	CN513	L8	L107	D2	R128	N2	R268	K5	R716	E9
C128	B2	C261	L4	C701	E7	CN602	O8	L109	G5	R129	H3	R269	K7	R718	I11
C129	F4	C262	L4	C702	D7	CN701	I10	L120	I3	R130	H5	R270	L7	R719	D9
C130	H4	C263	L4	C703	C8	D105	G5	L121	I4	R131	C2	R271	J4	R720	B11
C131	E4	C264	K5	C704	C8	D106	D2	L203	N5	R132	H2	R272	J4	R721	B11
C132	E5	C265	J5	C705	B12	D107	C3	LD303	H2	R133	I2	R273	J5	R722	E12
C133	G5	C266	J4	C706	D6	D108	H2	LD304	H1	R134	I2	R274	J5	R723	E12
C134	B2	C268	K6	C707	E8	D109	I2	OW101	C3	R135	C3	R275	J5	R724	D9
C135	H5	C269	J5	C708	E8	D141	B4	OW102	B3	R136	G2	R276	K7	R725	B9
C136	F5	C270	K7	C709	B10	D142	B4	OW103	B2	R137	G2	R278	M9	R729	E9
C137	C3	C271	J4	C710	C8	D150	E1	OW104	B2	R138	B2	R280	K5	R730	C9
C138	C2	C272	K4	C711	I11	D151	E1	OW105	B3	R139	I4	R281	K5	R731	C10
C139	C3	C275	L5	C712	C8	D201	L10	OW106	B3	R141	H3	R282	K5	R732	K10
C140	C2	C276	K4	C713	D10	D401	B5	OW107	C2	R142	I3	R283	K4	R734	N1
C142	E2	C277	L3	C714	B8	D402	B5	OW108	C2	R144	C3	R284	K3	R741	L9
C143	F2	C278	K3	C715	K9	D481	L9	OW115	E4	R145	B2	R285	K3	R742	M1
C144	G2	C279	M9	C716	E10	D701	F10	OW201	M5	R146	D3	R286	K4	R743	L1
C145	G2	C280	K5	C717	B5	D702	C5	OW701	I5	R147	C2	R287	K3	R744	M1
C146	F2	C281	M7	C718	B5	D703	B7	OW703	N2	R148	F4	R288	M9	R745	M1
C148	F2	C292	K7	C720	F1	D704	B7	OW709	J10	R149	G3	R289	M9	R746	M1
C149	C2	C293	N3	C721	H10	D705	L9	OW712	J10	R151	G4	R290	K7	R747	M1
C150	I2	C294	N4	C722	H10	D706	L9	PN201	M3	R152	G3	R292	N6	R748	L9
C151	G4	C295	K3	C725	B5	D707	C5	PN202	L5	R153	H2	R293	N6	R750	B7
C152	G3	C400	B4	C726	B6	D708	L11	Q101	D4	R156	F3	R294	M6	R752	D7
C153	G3	C402	J7	C727	B7	D709	L11	Q102	G5	R181	I4	R400	B4	R753	D7
C154	H2	C403	G8	C728	F10	D710	L11	Q103	G2	R182	H4	R401	B4	R754	D7
C156	F4	C404	K8	C730	D11	D711	H10	Q105	C2	R189	I4	R402	G8	R755	D7
C157	E5	C405	I5	C731	K9	D712	I12	Q106	C2	R191	I2	R403	H8	R756	D8
C158	G4	C406	H8	C732	D7	D713	K11	Q107	H4	R192	F2	R404	G7	R762	E9
C159	E3	C407	H7	C733	I9	D720	J9	Q108	G4	R201	M4	R406	J6	R763	E9
C179	F5	C408	I7	C734	I9	D721	J9	Q115	G2	R202	M4	R407	H8	R764	F9
C187	I4	C409	G7	C736	K11	D722	I9	Q201	K7	R203	M3	R408	F8	R765	F9
C188	H4	C410	H7	C737	M1	D723	J9	Q202	J5	R204	N4	R409	E7	R766	E9
C190	D2	C411	G7	C738	L11	D724	B8	Q203	J5	R205	N3	R411	H7	R769	E9
C191	I5	C412	M10	C739	K11	D725	B8	Q206	N4	R208	L3	R413	J7	R770	C12
C192	I3	C413	I8	C740	M11	D730	K10	Q207	M6	R209	L3	R415	J8	R771	B12
C195	B3	C414	G8	C741	M11	D731	G5	Q208	N6	R210	L3	R418	M8	R772	J11
C196	C2	C416	G8	C742	L11	D732	K10	Q251	K7	R211	L3	R419	M8	R773	J11
C197	D5	C417	F8	C743	L10	D733	K10	Q252	J5	R212	K6	R420	K7	R774	D9
C198	I3	C423	L8	C744	K10	D734	K9	Q253	J5	R213	K3	R421	G6	R779	E9
C201	M4	C424	L8	C751	D7	D735	K9	Q254	L6	R214	L3	R423	H8	R780	C10
C202	M4	C425	J8	C752	D7	D751	F10	Q401	E7	R215	L3	R424	J7	R781	B9
C203	J6	C434	E7	C753	D8	FB101	I5	Q402	E7	R216	K3	R425	H8	R784	N11
C204	M3	C435	G7	C754	D8	FB102	H5	Q451	D7	R217	K6	R427	E7	R792	J11
C205	M3	C436	H7	C757	D8	FB115	D4	Q701	M1	R218	J6	R446	G6	R793	J11
C206	L3	C437	H7	C758	E8	FB116	G5	Q702	E10	R219	K6	R450	B5	R794	M11
C207	N4	C438	H7	C759	B6	FB117	B3	Q703	I11	R220	K7	R451	B5	R795	L10
C208	M6	C440	G7	C760	B8	FB201	M3	Q705	K10	R221	J5	R452	G9	RY701	D1
C210	M4	C441	G7	C762	C7	FB202	L5	Q706	K10	R222	J5	R453	G8	SW601	O9
C211	L3	C442	G6	C763	C10	FB251	M4	Q752	E9	R223	J5	R454	H7	TUN101	C4
C212	L3	C443	I7	C764	A11	FB252	L5	Q761	J11	R224	J6	R456	J5	VR201	O4
C213	L3	C444	G6	C766	E9	FB401	F6	Q762	J11	R225	J6	R457	H8	X104	E4
C214	K6	C445	G7	C770	G1	FB701	D7	Q763	K11	R226	K6	R458	F8	ZD701	M11
C215	K3	C446	G7	C771	H10	FB702	D8	Q764	J11	R230	M6	R459	E7	ZD702	L11
C216	K3	C447	F7	C772	H10	FB703	E8	Q766	L10	R231	L6	R461	H8	ZD708	C10
C218	K6	C448	G7	C778	G10	FB710	E10	Q791	L9	R236	N4	R463	J7	ZD758	B10
C219	J6	C450	B4	C779	J11	FB711	E10	Q792	L9	R237	N6	R464	K9		

• FRONT P.C. BOARD(COMPONENT SIDE)



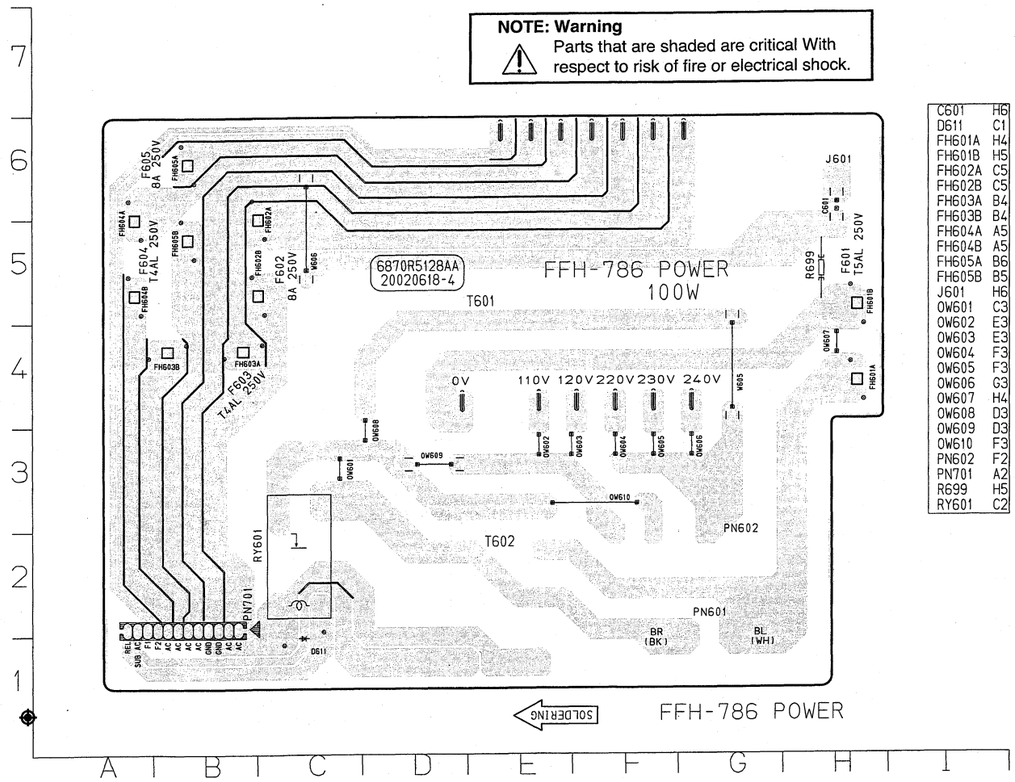
C243	J8	D312	H7	R243	I9	R355	G3	R520	B6
C244	J9	D313	C5	R244	H8	R356	G2	R521	D4
C245	I8	D314	I2	R246	I9	R357	E3	R522	E2
C246	I9	D315	K5	R276	H8	R358	H3	R523	D2
C247	I9	D316	G7	R277	H9	R359	G3	R524	C2
C248	I8	D317	K5	R301	J4	R360	I3	R525	C2
C249	I7	D318	D7	R302	C6	R361	H3	R526	C2
C250	H7	D319	C6	R303	C6	R362	H4	R527	C2
C282	J9	D320	H2	R304	B3	R363	H3	R528	C2
C283	H8	D321	G3	R305	K5	R364	I3	R529	E2
C284	I8	D322	H4	R306	D6	R365	H4	R530	G2
C285	I8	D323	K2	R307	D5	R366	B5	R531	G2
C286	I8	D324	G7	R308	L7	R367	I6	R532	G2
C287	J9	D330	G3	R309	E5	R368	G2	R533	E3
C301	H5	D360	H4	R310	I5	R369	I7	R534	H1
C302	D6	FB301	D6	R311	I4	R370	I4	R536	C3
C303	K7	FB302	E5	R312	E6	R371	D6	R537	C3
C304	C7	FB303	J1	R313	K3	R372	D6	R539	B3
C306	K5	FB304	I1	R314	K3	R373	D5	RH301	I7
C307	K3	FIP301	F7	R315	K3	R374	D5	RH302	F7
C308	E6	IC204	I8	R316	K2	R375	D5	RH303	D7
C309	F6	IC302	K3	R317	H5	R376	C5	RM301	J7
C311	E5	J200	I9	R318	I5	R377	C5	SW501	B6
C312	E5	JK201	K8	R319	I5	R378	D6	SW502	B5
C313	K3	LD301	E1	R320	I5	R379	I4	SW503	F4
C314	E6	LD302	F1	R321	F5	R380	I4	SW504	G4
C315	K2	LD305	G1	R322	F5	R381	D5	SW505	F4
C316	D5	LD306	H1	R323	I7	R382	H2	SW506	H4
C317	C7	LD308	E3	R324	J2	R383	J5	SW507	G4
C318	B7	LD309	D3	R325	J2	R384	J5	SW508	K5
C319	A7	LD310	D3	R326	H2	R385	J5	SW509	K6
C320	C7	LD311	C3	R327	I2	R386	J5	SW510	L6
C321	B7	LD312	A6	R328	I2	R387	J5	SW511	L6
C322	D5	PN201	H9	R329	D6	R388	J5	SW512	L5
C323	D5	PN302	B4	R330	D6	R389	J6	SW513	L4
C324	D5	PN308	I2	R331	F3	R390	I5	SW514	L4
C325	E6	PN320	D1	R332	F3	R391	J6	SW551	A6
C326	B5	Q204	H8	R333	F3	R392	J6	SW552	C4
C327	A6	Q205	H8	R334	F3	R393	J5	SW553	D4
C328	B6	Q301	E6	R335	G3	R394	J6	SW554	E3
C329	K2	Q302	D5	R336	F3	R395	K2	SW555	D3
C330	K5	Q310	G3	R337	F3	R396	C3	SW556	D3
C331	K3	Q311	H2	R338	F3	R399	A2	SW557	C3
C332	K7	Q312	G2	R339	F3	R3A1	I3	SW558	C2
C333	J1	Q314	G3	R340	F3	R3A3	C7	SW559	D2
CN201	K1	Q315	H3	R341	F3	R501	C6	SW560	E2
CN307	K4	Q333	K2	R342	G3	R502	E4	SW561	F2
CN308	F8	Q357	A2	R343	J2	R503	F4	SW562	F2
CN809	K6	R206	J8	R344	F3	R504	F4	SW563	G2
D301	E4	R207	J8	R345	C3	R505	H4	VR301	J3
D302	K3	R226	J9	R346	C3	R506	G4	VR302	F8
D304	I6	R227	I8	R347	G3	R507	K5	VR304	L2
D305	H6	R228	J8	R348	G3	R508	K6	X301	F6
D306	H7	R229	I8	R349	G3	R509	L6	X302	F5
D307	H7	R232	I8	R350	H3	R510	L6	X351	B7
D308	H7	R233	J8	R351	H3	R511	L5	ZD301	I7
D309	H7	R234	H8	R352	H2	R512	L4	ZD302	C7
D310	G7	R235	I7	R353	H2	R513	L4	ZD303	B7
D311	H7	R241	I8	R354	G3	R515	L4		

• FRONT P.C. BOARD(SOLDER SIDE)



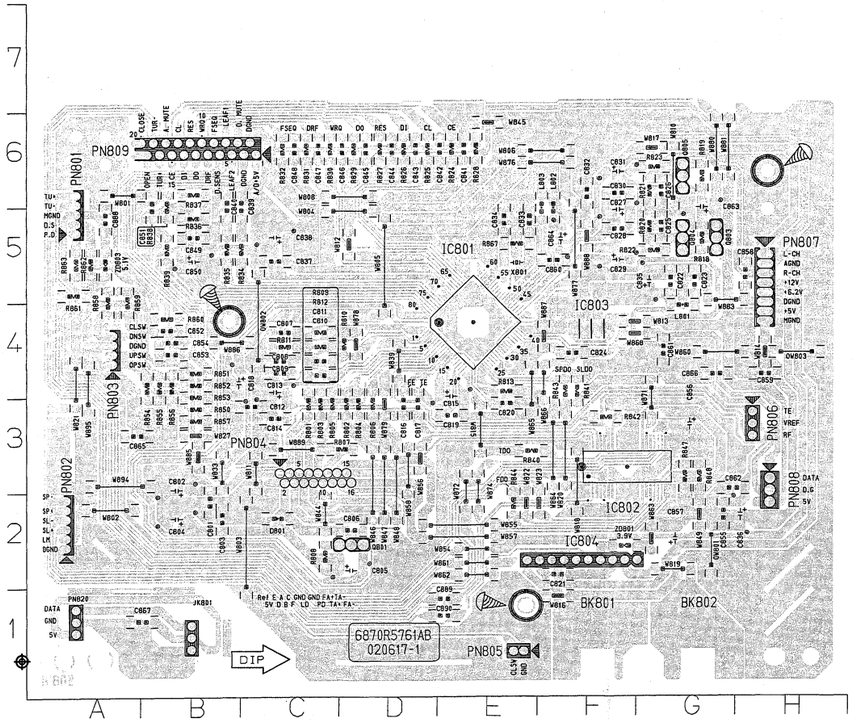
• Power P.C. BOARD

NOTE: Warning
⚠ Parts that are shaded are critical With respect to risk of fire or electrical shock.



C601	H6
D611	C1
FH601A	H4
FH601B	H5
FH602A	C5
FH602B	C5
FH603A	B4
FH603B	B4
FH604A	A5
FH604B	A5
FH605A	B6
FH605B	B5
J601	H6
OW601	C3
OW602	E3
OW603	E3
OW604	F3
OW605	F3
OW606	G3
OW607	H4
OW608	D3
OW609	D3
OW610	F3
PN602	F2
PN701	A2
R699	H5
RY601	C2

• CD MAIN P.C. BOARD



C801	B2	OW801	G2
C802	B3	OW802	C4
C803	B2	OW803	H4
C804	B2	PN801	A5
C805	D2	PN802	A2
C806	D2	PN803	A4
C807	C4	PN804	C3
C808	C4	PN805	E1
C809	C4	PN806	H3
C810	C4	PN807	H5
C811	C4	PN808	H3
C812	C3	PN809	C6
C813	C4	PN820	A1
C814	C3	Q801	D2
C815	E3	Q803	G5
C816	D3	Q804	G5
C817	D3	Q805	G6
C818	B4	R801	C3
C819	E3	R802	D3
C820	E3	R803	C3
C821	F2	R804	D3
C822	G5	R805	C3
C823	G5	R806	D3
C824	F4	R807	D3
C825	G5	R808	C2
C826	G6	R809	C4
C827	F5	R810	D4
C828	F5	R811	C4
C829	F5	R812	C4
C830	F6	R813	E4
C831	F6	R818	G5
C832	F6	R819	G6
C833	E5	R820	G5
C834	E5	R821	G6
C835	G5	R822	G5
C836	H2	R823	G6
C837	C5	R824	E6
C838	C5	R825	D6
C839	C5	R826	D6
C840	B5	R827	D6
C841	E6	R828	E6
C842	E6	R829	D6
C843	D6	R830	C6
C844	D6	R831	C6
C845	D6	R832	C6
C846	D6	R834	C5
C847	C6	R835	B5
C848	C6	R836	B5
C849	B5	R837	B6
C850	B5	R838	B5
C851	B5	R839	B5
C852	B4	R840	E3
C853	B4	R841	F4
C854	B4	R842	F3
C855	G2	R843	F4
C856	G3	R844	E2
C857	G2	R847	G3
C858	H5	R848	G3
C859	H4	R850	B3
C860	F5	R851	B4
C861	G4	R852	B4
C862	G3	R853	B3
C863	G5	R854	B4
C864	F5	R855	B4
C865	A3	R856	B4
C866	G4	R857	B3
C867	B1	R858	A4
C888	A5	R859	A4
C889	E1	R860	B4
C890	E1	R861	A5
D801	C2	R862	A5
IC803	F4	R863	A5
IC804	G2	R867	E5
L801	G4	X801	E5
L802	F5	ZD801	F2
L803	F5	ZD803	A5

MEMO

MEMO

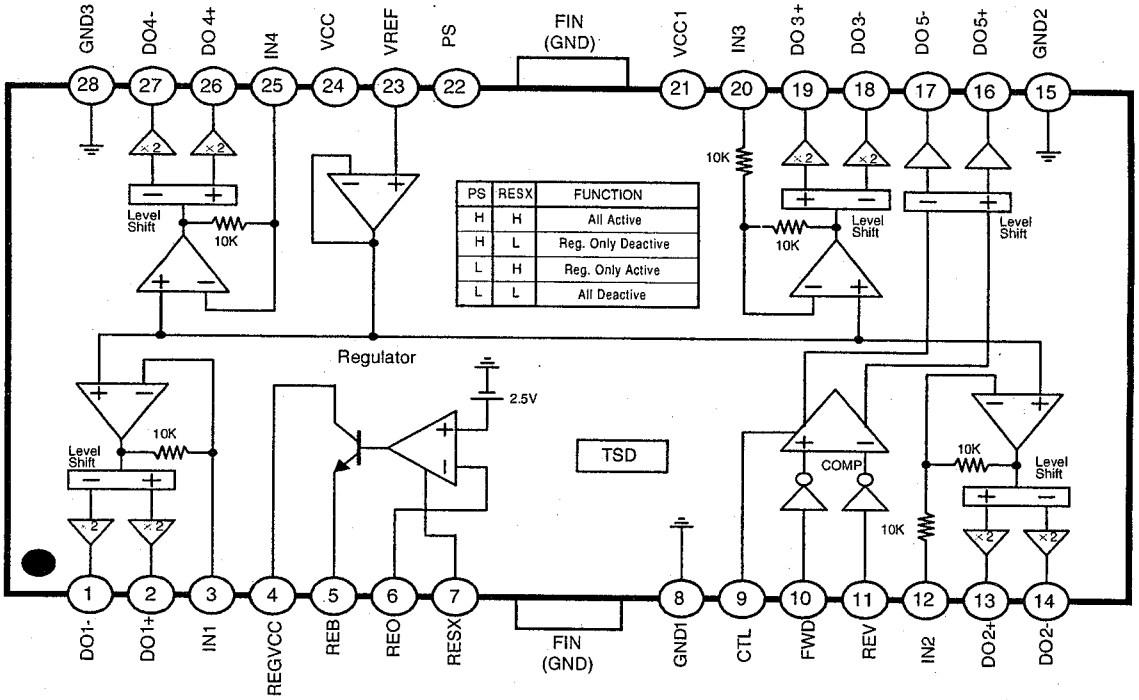
INTERNAL BLOCK DIAGRAM OF ICs

■ FAN8039BD3

5-CH Motor Diver

Description

The FAN8039BD3 is a monolithic integrated circuit suitable for a 5-CH motor driver which drives the tracking actuator, focus actuator, sled motor, tray motor, spindle motor of the DVDP/CAR-CD systems.



Pin Definitions

NO	Symbol	Description	NO	Symbol	Description
1	DO1-	CH1 Drive Output (-)	15	GND2	Power Ground1 (CH 2,3,5)
2	DO1+	CH1 Drive Output (+)	16	DO5+	CH5 Drive Output (+)
3	IN1	CH1 Drive Input	17	DO5-	CH5 Drive Output(-)
4	REGVCC	Regulator Supply Voltage	18	DO3-	CH3 Drive Output(-)
5	REB	Regulator Output	19	DO3+	CH3 Drive Output (+)
6	REO	Regulator Feedback Input	20	IN3	CH3 Drive Input
7	RESX	Regulator Reset	21	VCC1	Supply Voltage1(CH2,CH3,CH5)
8	GND1	Signal Ground	22	PS	Power Save
9	CTL	CH5 Motor Speed Control	23	VREF	Bias Voltage
10	FWD	CH5 Forward Input	24	VCC	Supply Voltage(CH1,CH4)
11	REV	CH5 Reverse Input	25	IN4	CH4 Drive Input
12	IN2	CH2 Drive Input	26	DO4+	CH4 Drive Output (+)
13	DO2+	CH2 Drive Output (+)	27	DO4-	CH4 Drive Output (-)
14	DO2-	CH2 Drive Output (-)	28	GND3	Power Ground2 (CH 1,4)

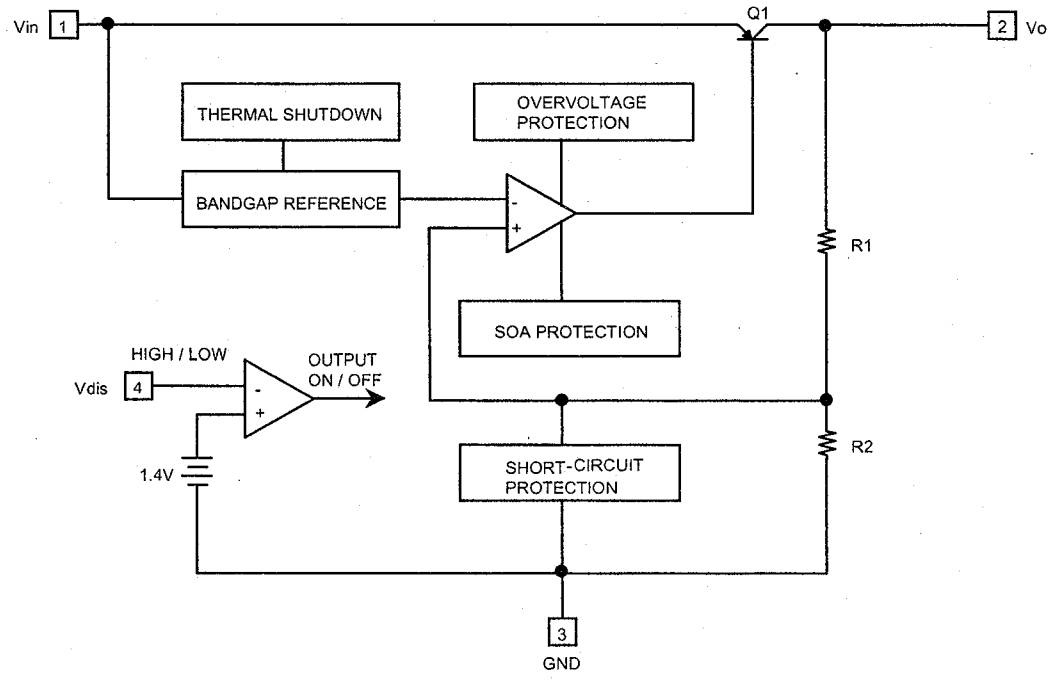
■ KA78R33

Low Dropout Voltage Regulator

Description

The KA78R33 is a low-dropout voltage regulator suitable for various electronic equipments. It provides constant voltage power source with TO-220 4 lead full mold package. Dropout voltage of KA78R33 is below 0.5V in full rated current(1A). This regulator has various function such as peak current protection, thermal shut down, overvoltage protection and output disable function.

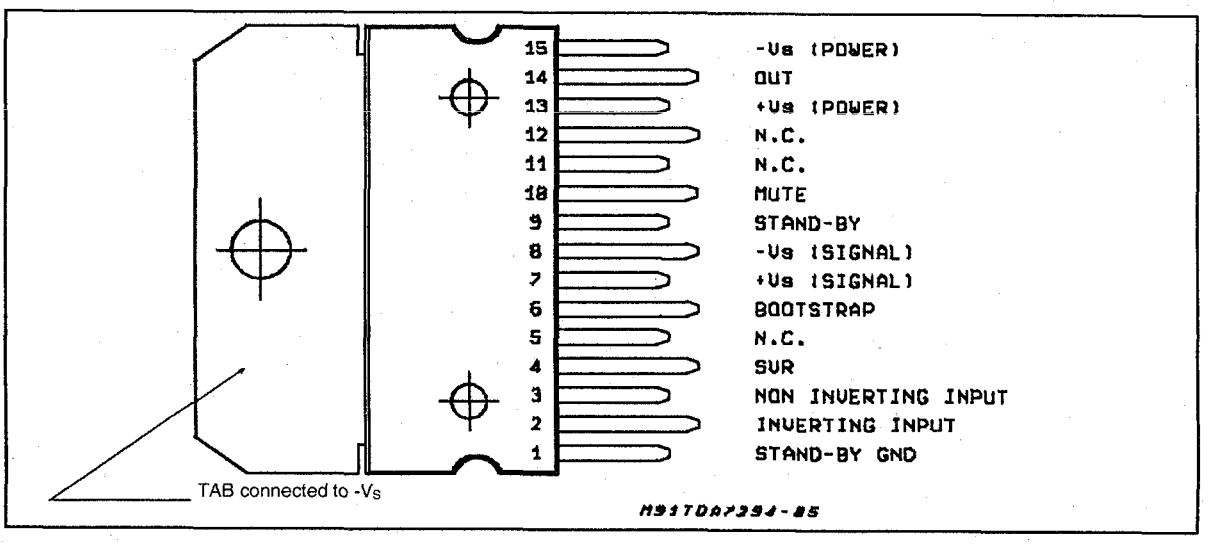
Internal Block Diagram



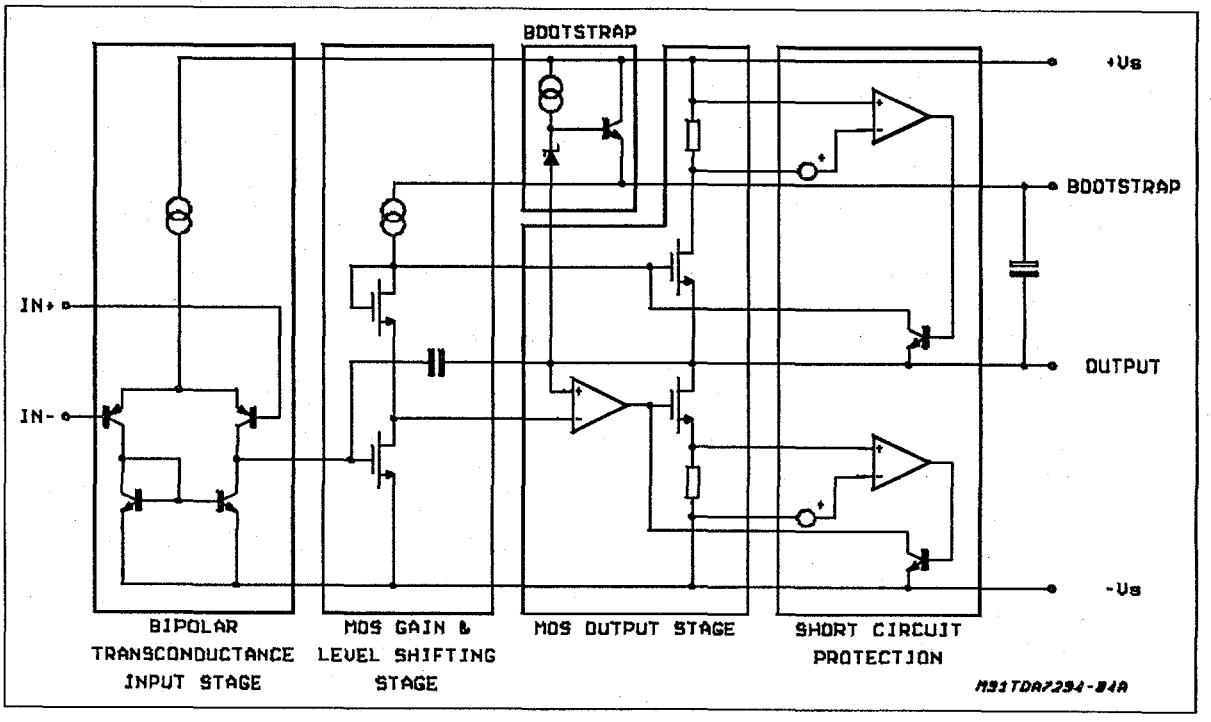
■ TDA7294

100V - 100W DMOS AUDIO AMPLIFIER WITH MUTE/ST-BY

PIN CONNECTION (Top view)



BLOCK DIAGRAM



ELECTRICAL CHARACTERISTICS (Refer to the Test Circuit V_S = +35V, R_L = 8Ω, G_V = 30dB; R_g = 50 Ω; T_{amb} = 25°C, f = 1 kHz; unless otherwise specified.

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
V_S	Supply Range		+10		+40	V
I_q	Quiescent Current		20	30	60	mA
I_b	Input Bias Current				500	nA
V_{OS}	Input Offset Voltage				±10	mV
I_{OS}	Input Offset Current				±100	nA
P_O	RMS Continuous Output Power	d = 0.5%: V_S = + 35V, R_L = 8Ω V_S = + 31V, R_L = 6Ω V_S = + 27V, R_L = 4Ω	 60 60 60	 70 70 70		 W W W
	Music Power (RMS) IEC268.3 RULES - Δt = 1s (*)	d = 10% R_L = 8Ω ; V_S = +38V R_L = 6Ω ; V_S = +33V R_L = 4Ω ; V_S = +29V (***)		 100 100 100		 W W W
d	Total Harmonic Distortion (**)	P_O = 5W; f = 1kHz P_O = 0.1 to 50W; f = 20Hz to 20kHz		0.005	 0.1	% %
		V_S = +27V, R_L = 4Ω: P_O = 5W; f = 1kHz P_O = 0.1 to 50W; f = 20Hz to 20kHz		0.01	 0.1	% %
SR	Slew Rate		7	10		V/μs
G_V	Open Loop Voltage Gain			80		dB
G_V	Closed Loop Voltage Gain		24	30	40	dB
e_N	Total Input Noise	A = curve f = 20Hz to 20kHz		1 2	 5	μV μV
f_L, f_H	Frequency Response (-3dB)	P_O = 1W	20Hz to 20kHz			
R_i	Input Resistance		100			kΩ
SVR	Supply Voltage Rejection	f = 100Hz; V_{ripple} = 0.5Vrms	60	75		dB
T_S	Thermal Shutdown			145		5C
STAND-BY FUNCTION (Ref: -V_S or GND)						
$V_{ST\ on}$	Stand-by on Threshold				1.5	V
$V_{ST\ off}$	Stand-by off Threshold		3.5			V
$ATT_{st\text{-}by}$	Stand-by Attenuation		70	90		dB
$I_{q\ st\text{-}by}$	Quiescent Current @ Stand-by			1	3	mA
MUTE FUNCTION (Ref: -V_S or GND)						
V_{Mon}	Mute on Threshold				1.5	V
V_{Moff}	Mute off Threshold		3.5			V
ATT_{mute}	Mute Attenuation		60	80		dB

Note (*):
MUSIC POWER CONCEPT
MUSIC POWER is the maximal power which the amplifier is capable of producing across the rated load resistance (regardless of non linearity) 1 sec after the application of a sinusoidal input signal of frequency 1KHz.

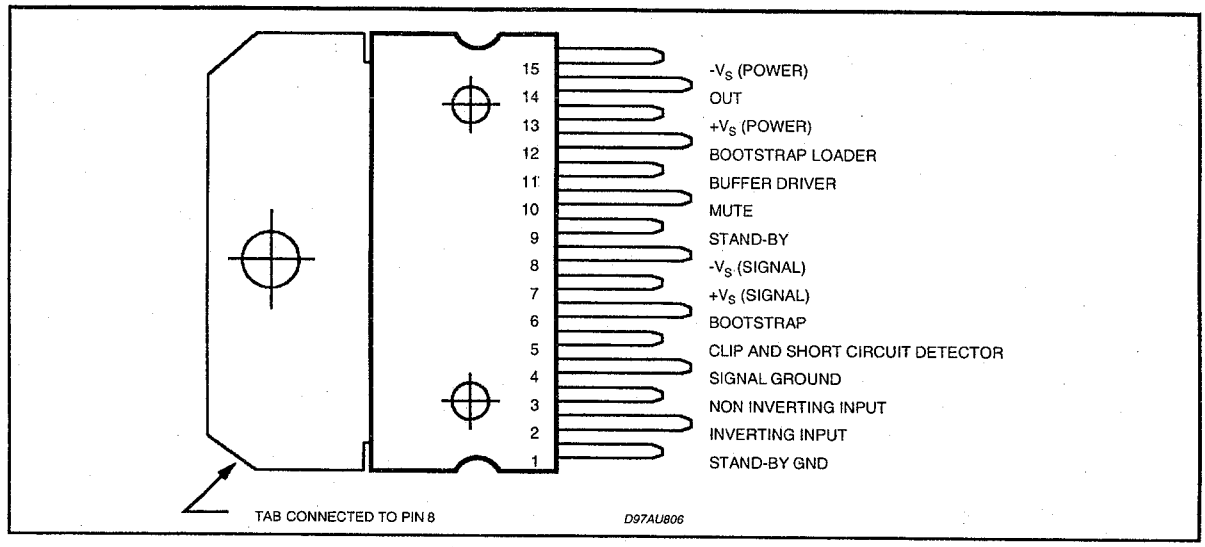
Note (**): Tested with optimized Application Board (see fig. 2)

Note (***): Limited by the max. allowable current.

■ TDA7293

120V - 100W DMOS AUDIO AMPLIFIER WITH MUTE/ST-BY

PIN CONNECTION (Top view)



ELECTRICAL CHARACTERISTICS (Refer to the Test Circuit V_S = +40V, R_L = 8Ω, R_g = 50 Ω; T_{amb} = 25°C, f = 1 kHz; unless otherwise specified).

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
V_S	Supply Range		+12		+50	V
I_q	Quiescent Current			30		mA
I_b	Input Bias Current			0.3	1	µA
V_{OS}	Input Offset Voltage		-10		10	mV
I_{OS}	Input Offset Current				0.2	µA
P_O	RMS Continuous Output Power	d = 1%: R_L = 4Ω; V_S = + 29V,		80 80		W
		d = 10% R_L = 4Ω ; V_S = +29V		100 100		W
d	Total Harmonic Distortion (**)	P_O = 5W; f = 1kHz P_O = 0.1 to 50W; f = 20Hz to 15kHz		0.005	 0.1	% %
Isc	Current Limiter Threshold	V_S 3 + 40V		6.5		A
SR	Slew Rate			15		V/µs
G_V	Open Loop Voltage Gain			80		dB
G_V	Closed Loop Voltage Gain (1)			30		dB
e_N	Total Input Noise	A = curve f = 20Hz to 20kHz		1 2	5	µV µV
R_i	Input Resistance		100			kΩ
SVR	Supply Voltage Rejection	f = 100Hz; V_{ripple} = 0.5Vrms		75		dB
T_S	Thermal Protection	DEVICE MUTED		150		5C
		DEVICE SHUT DOWN		160		5C
STAND-BY FUNCTION (Ref: to pin 1)						
$V_{ST\ on}$	Stand-by on Threshold				1.5	V
$V_{ST\ off}$	Stand-by off Threshold		3.5			V
$ATT_{st\text{-}by}$	Stand-by Attenuation		70	90		dB
$I_{q\ st\text{-}by}$	Quiescent Current @ Stand-by			0.5		mA
MUTE FUNCTION (Ref: to pin 1)						
V_{Mon}	Mute on Threshold				1.5	V
V_{Moff}	Mute off Threshold		3.5			V
ATT_{mute}	Mute Attenuation		60	80		dB
CLIP DETECTOR						
Duty	Duty Cycle (pin 5)	THD = 1% ; RL = 10KΩ to 5V		10		%
		THD = 10% ; RL = 10KΩ to 5V		40		%
I_{CLEAK}		PO = 50W			1	µA
SLAVE FUNCTION pin 4 (Ref: to pin 8 -Vs)						
V_{Slave}	SlaveThreshold				1	V
V_{Master}	Master Threshold		3			V

Note (1): G_{Vmin} . 26dB

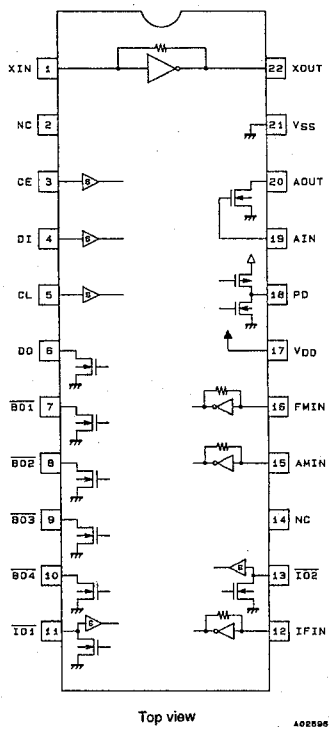
Note: Pin 11 only for modular connection. Max external load 1MΩ/10 pF, only for test purpose

Note (**): Tested with optimized Application Board (see fig. 2)

■ LC72131

AM/FM PLL Frequency Synthesizer

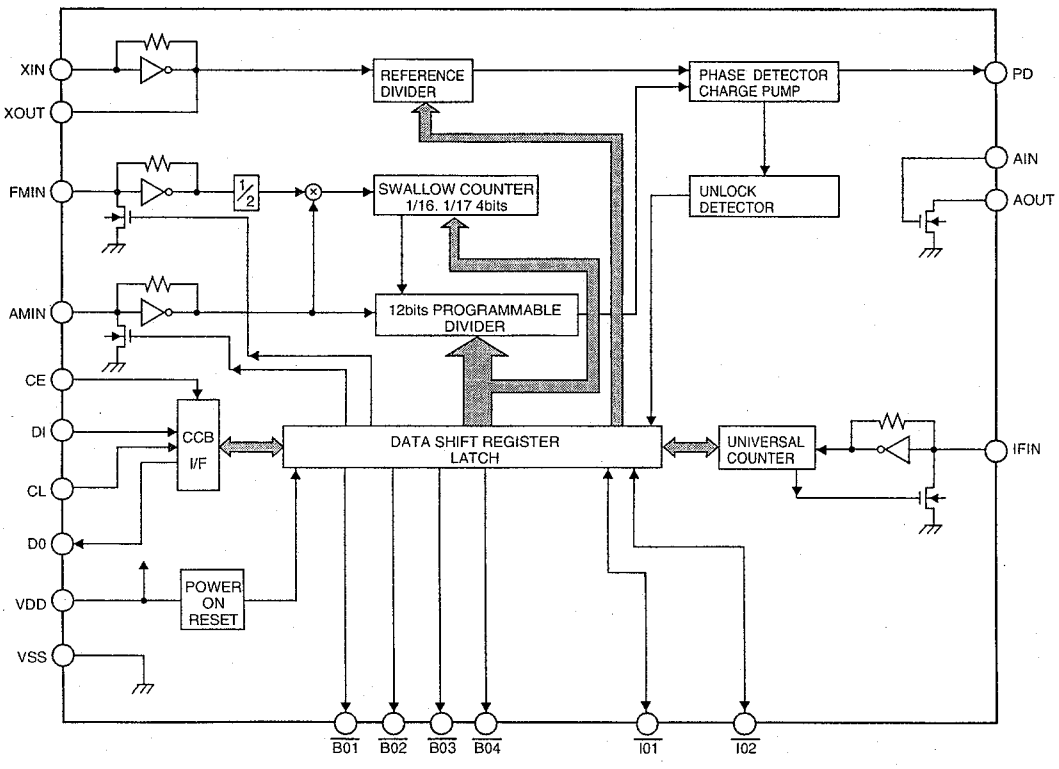
[LC72131]



Top view

A02595

Block Diagram

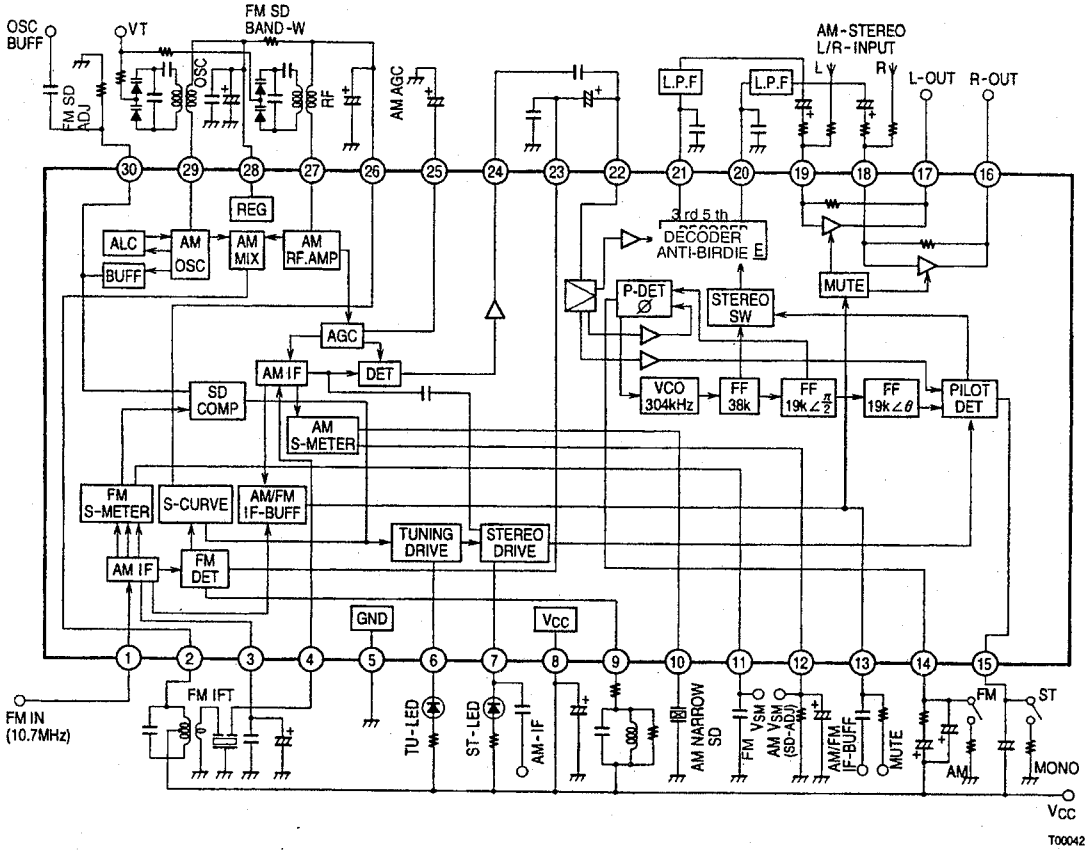


■ LA1837

Single-Chip Home stereo IC with Electronic Tuning Support

The LA1837 is a single-chip AM/FM IF and MPX IC that supports electronic tuning and was developed for use in home stereo systems. It is optimal for use in automatic station selection systems that use the SD and IF counting techniques.

Block Diagram



■ KIA 78R12 PI

4 TERMINAL LOW DROP VOLTAGE REGULATOR

The KIA78RXX Series are Low Drop Voltage Regulator suitable for various electronic equipments. It provides constant voltage power source with TO-220 4 termainal lead full molded PKG. The Regulator has multi function such as over current protection, overheat protection and ON/OFF control.

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, I_O=0.5A, Ta=25℃, Note1.)

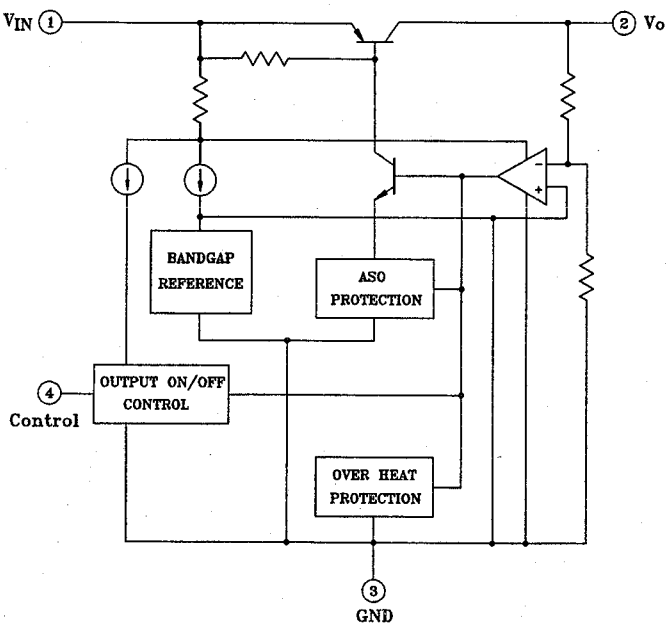
CHARACTERISTIC		SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
Output Voltage	KIA78R05	V_O	-	4.88	5.0	5.12	V
	KIA78R06		-	5.85	6.0	6.15	
	KIA78R08		-	7.80	8.0	8.2	
	KIA78R09		-	8.78	9.0	9.22	
	KIA78R10		-	9.75	10.0	10.25	
	KIA78R12		-	11.70	12.0	12.30	
	KIA78R15		-	14.70	15.0	15.30	
Load Regulation		Reg Load	I_O=5mA~1A	-	0.1	2.0	%
Line Regulation		Reg Line	(Note 2)	-	0.5	2.5	%
Ripple Rejection		R·R		45	55	-	dB
Drop Out Voltage		V_D	(Note 3)	-	-	0.5	V
Output ON state for control Voltage		$V_{C(ON)}$		2.0	-	-	V
Output ON state for control Current		$I_{C(ON)}$	V_C=2.7V	-	-	20	μA
Output OFF state for control Voltage		$V_{C(OFF)}$	-	-	-	0.8	V
Output OFF state for control Current		$I_{C(OFF)}$	V_C=0.4V	-	-	-0.4	mA
Quiescent Current		I_Q	I_O=0	-	-	10	mA

Note1) V_{IN} of KIA78R05=7V
" KIA78R06=8V
" KIA78R08=10V
" KIA78R09=15V
" KIA78R10=16V
" KIA78R12=18V
" KIA78R15=21V

Note2) V_{IN} of KIA78R05=6~12V
" KIA78R06=7~15V
" KIA78R08=9~25V
" KIA78R09=10~25V
" KIA78R10=11~26V
" KIA78R12=13~29V
" KIA78R15=16~32V

Note3) At V_{IN}=0.95V_O

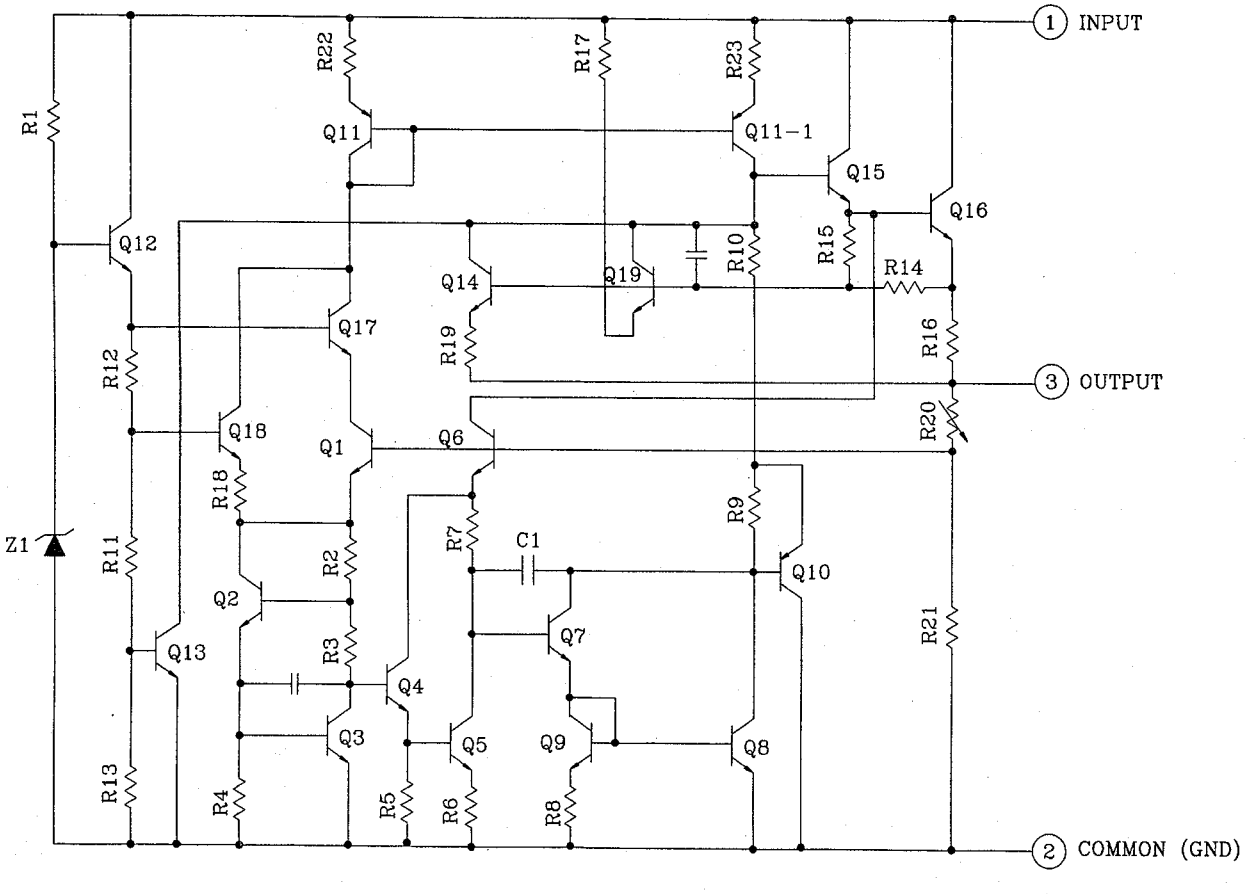
Block Diagram



■ KIA7805AP/API

THREE TERMINAL POSITIVE VOLTAGE REGULATORS 5V, 6V, 8V, 9V, 10V, 12, 15V, 18V, 24V.

EQUIVALENT CIRCUIT



KIA7805AP/API

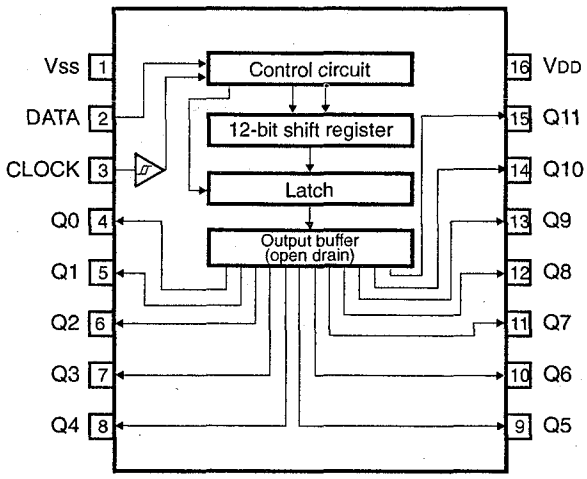
ELECTRICAL CHARACTERISTICS (V_{IN}=10V, I_{OUT}=500mA, 0℃≦T_j≦125℃)

CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	T_j=25℃, I_{OUT}=100mA		4.8	5.0	5.2	V
Input Regulation	Reg line	1	T_j=25℃	7.0V≦V_{IN}≦25V	-	3	100	mV
				8.0V≦V_{IN}≦12V	-	1	50	
Load Regulation	Reg load	1	T_j=25℃	5mA≦I_{OUT}≦1.4A	-	15	100	mV
				250mA≦I_{OUT}≦750mA	-	5	50	
Output Voltage	V_{OUT}	1	7.0V≦V_{IN}≦20V 5.0mA≦I_{OUT}≦1.0A, Po≦15W		4.75	-	5.25	V
Quiescent Current	I_B	1	T_j=25℃, I_{OUT}=5mA		-	4.2	8.0	mA
Quiescent Current Change	ΔI_B	1	7.0V≦V_{IN}≦25V		-	-	1.3	mA
Output Noise Voltage	V_{NO}	1	Ta=25℃, 10Hz≦f≦100kHz I_{OUT}=50mA		-	50	-	μV_{rms}
Ripple Rejection Ratio	RR	1	f=120Hz, 8.0V≦V_{IN}≦18V, I_{OUT}=50mA, T_j=25℃		62	78	-	dB
Dropout Voltage	V_D	1	I_{OUT}=1.0A, T_j=25℃		-	2.0	-	V
Short Circuit Current Limit	I_{SC}	1	T_j=25℃		-	1.6	-	A
Average Temperature Coefficient of Output Voltage	TC_{VO}	1	I_{OUT}=5mA, 0℃≦T_j≦125℃		-	-0.6	-	mV/℃

■ BU2090F

12-bit, Serial IN, Parallel OUT driver

Block diagram



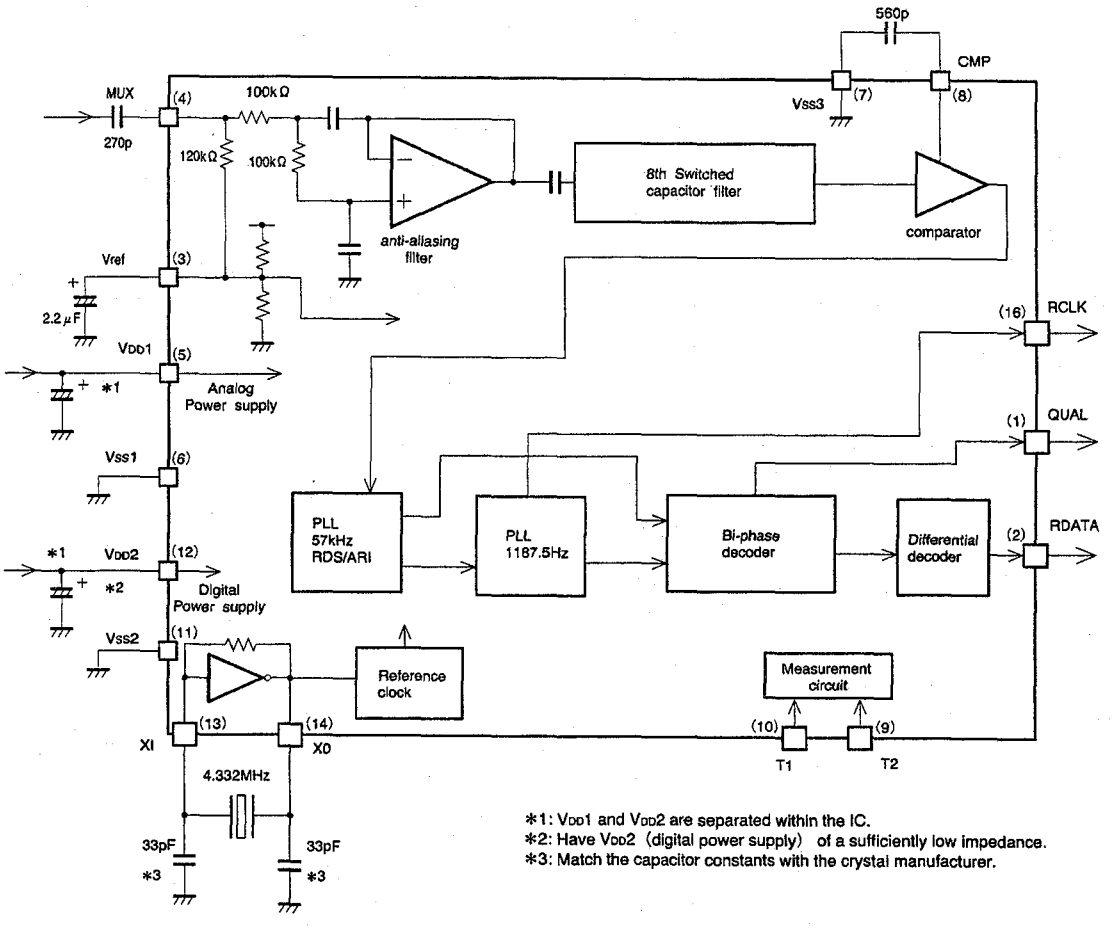
PIN DESCRIPTION

Pin No.			Pin name	Function
BU2090/F/FS	BU2092/F	BU2092/FV		
1	1	1	Vss	GND
2	2	2	DATA	Serial data input
3	3	3	CLOCK	Data shift clock input
-	4	4	LCK	Data latch clock input
4	5	5	Q0	parallel data output
5	6	6	Q1	parallel data output
6	7	7	Q2	parallel data output
7	8	8	Q3	parallel data output
8	9	9	Q4	parallel data output
9	10	10	Q5	parallel data output
10	11	11	Q6	parallel data output
-	-	12	N.C.	Not connected
-	-	13	N.C.	Not connected
11	12	14	Q7	parallel data output
12	13	15	Q8	parallel data output
13	14	16	Q9	parallel data output
14	15	17	Q10	parallel data output
15	16	18	Q11	parallel data output
-	17	19	$\overline{OE}$	Output Enable
16	18	20	V_{DD}	Power supply

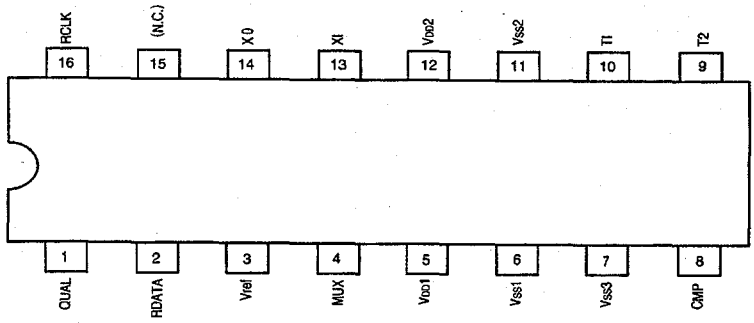
■ BU1923F

RDS / RBDS decoder

The BU1923 and BU1923F are RDS / RBDS decoders that employ a digital PLL and have a built-in anti-aliasing filter and an eight-stage BPF (switched-capacitor filter). Linear CMOS circuitry is used for low

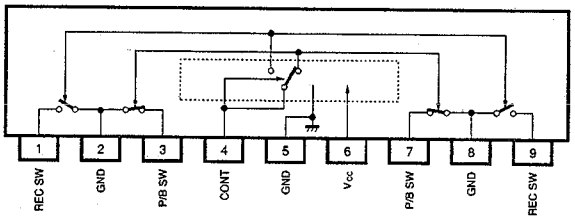


*1: VDD1 and VDD2 are separated within the IC.
*2: Have VDD2 (digital power supply) of a sufficiently low impedance.
*3: Match the capacitor constants with the crystal manufacturer.



■ BA3126N

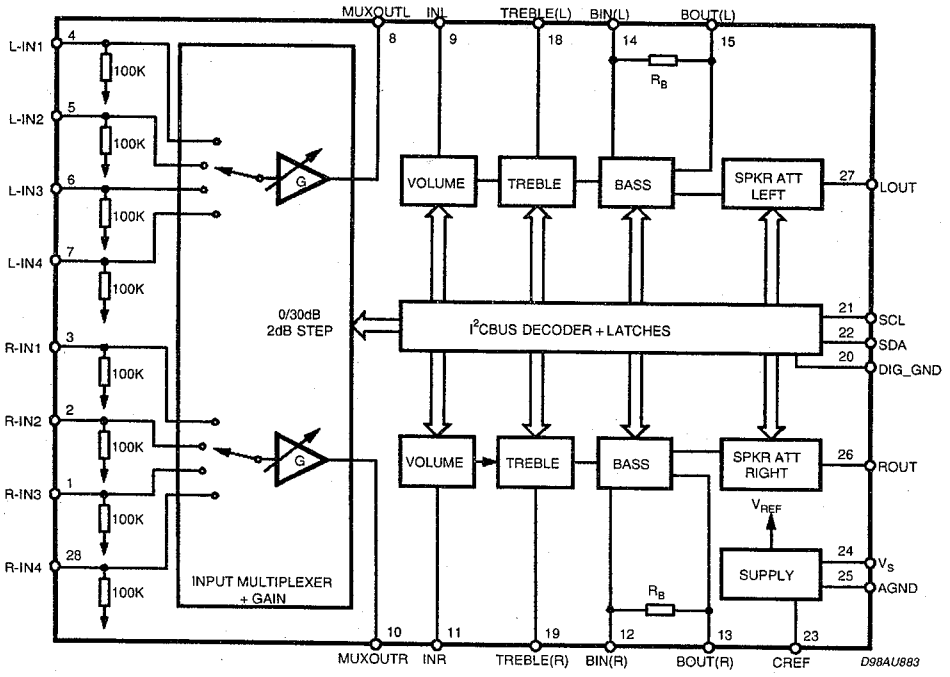
2-channel head switch for radio cassette recorders



■ TDA7442D

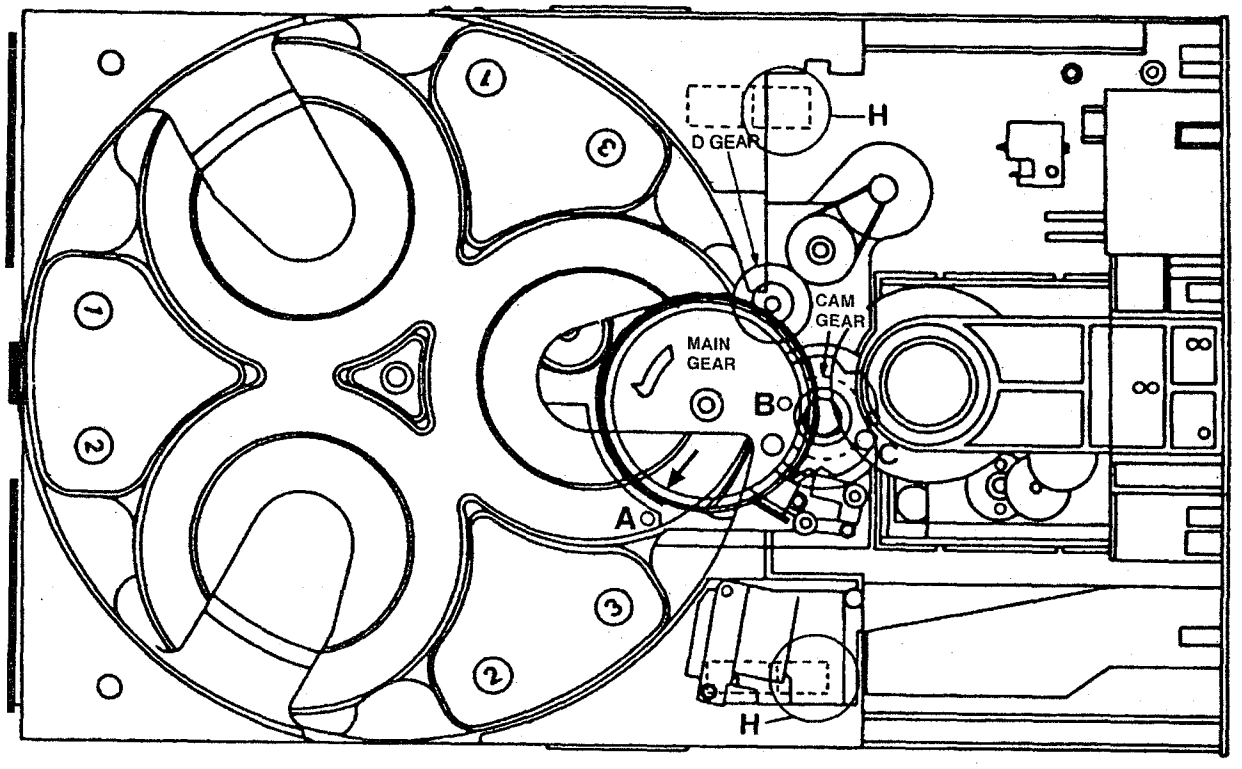
TONE CONTROL DIGITALLY CONTROLLED AUDIO PROCESSOR

BLOCK DIAGRAM



REPAIRS REGARDING CD MECHANISM

IMPROVED METHOD - WHEN THE TRAY GEARS WERE DISTORTED



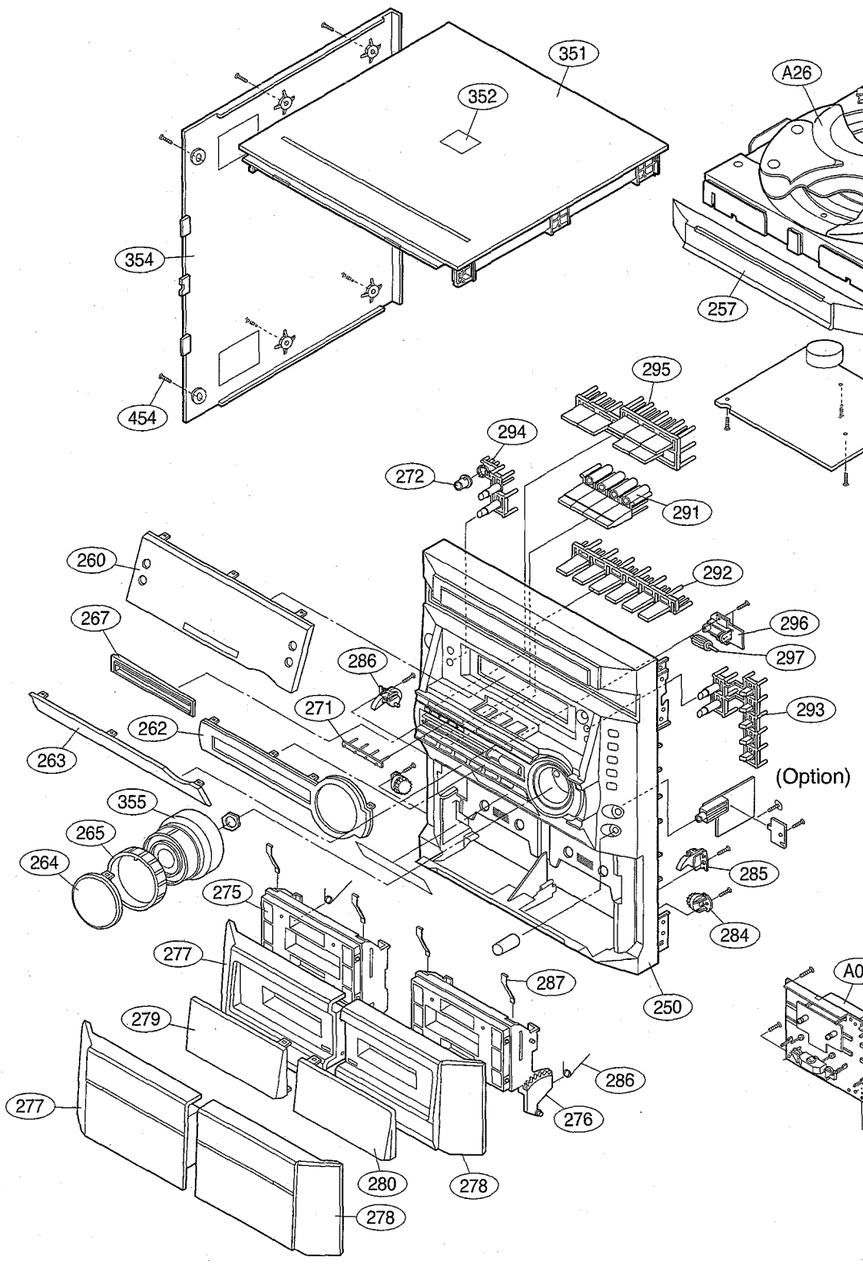
1. How to open the tray.
   In case of not suppling power push two hooks (H) of the base, and them open the tray.
2. How to improve the distorted gears.
   (1) Do the hole "C" of the cam gear to face forward the pick-up so the pick-up is down like figure.
   (2) Do the hole "B" of main gear to face forward pick-up, too.
   (3) Set the last part of main gear to point "A".
   (4) Push the tray to end.

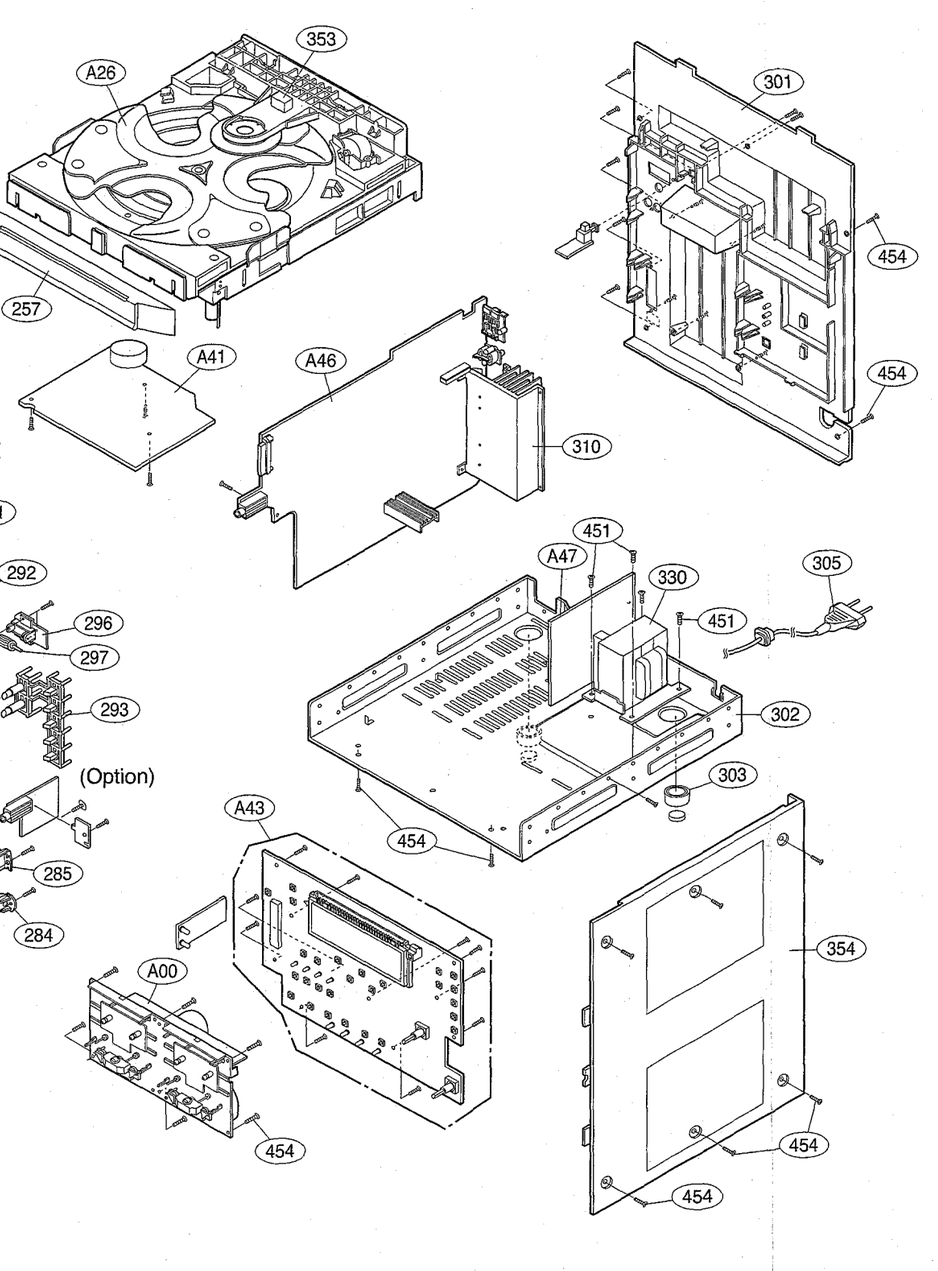
MEMO

SECTION 3. EXPLODED VIEWS

• CABINET AND MAIN FRAME SECTION

NOTE) Refer to "SECTION 5 REPLACEMENT PARTS LIST" in order to look for the part number of each part.

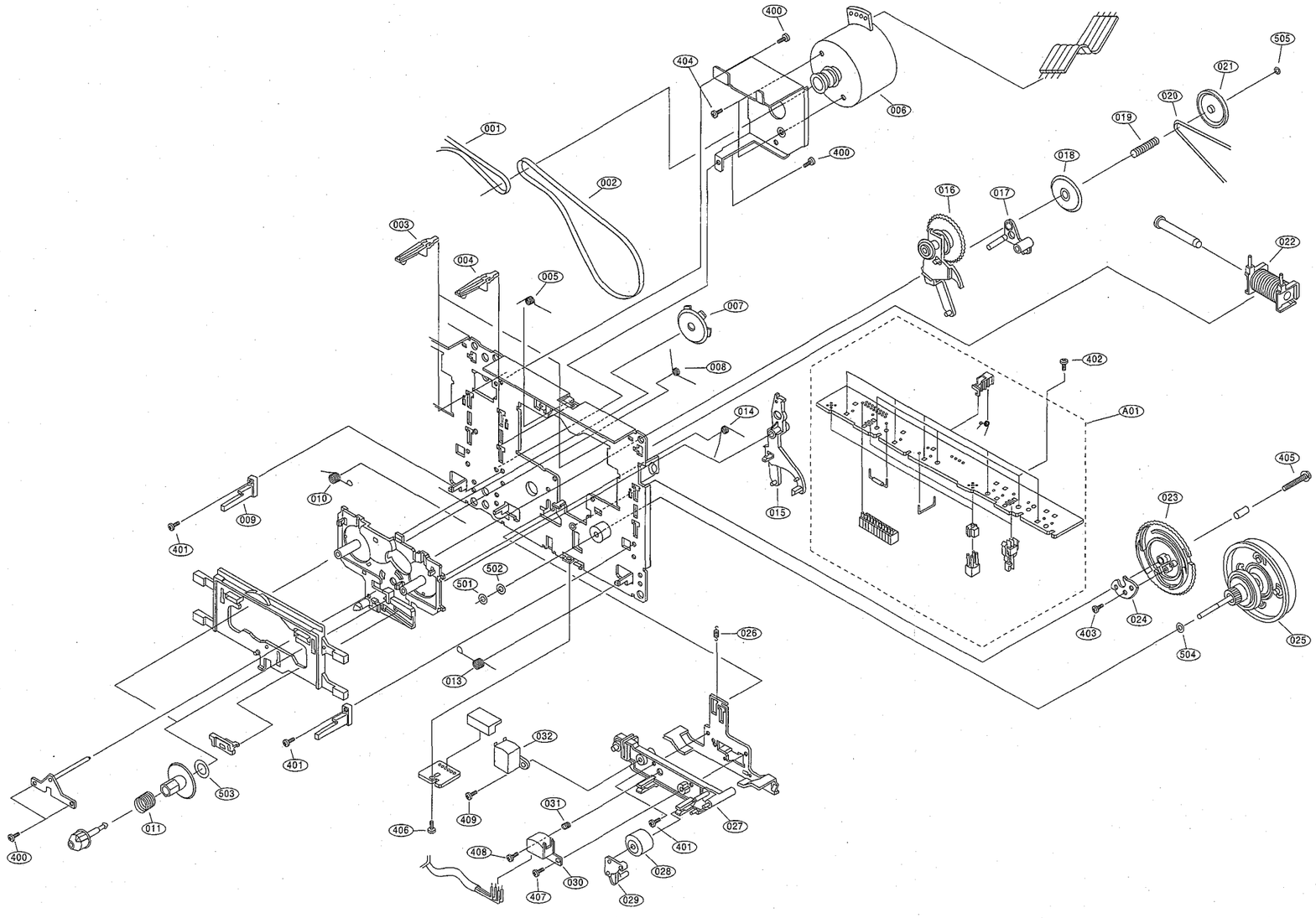




3-1

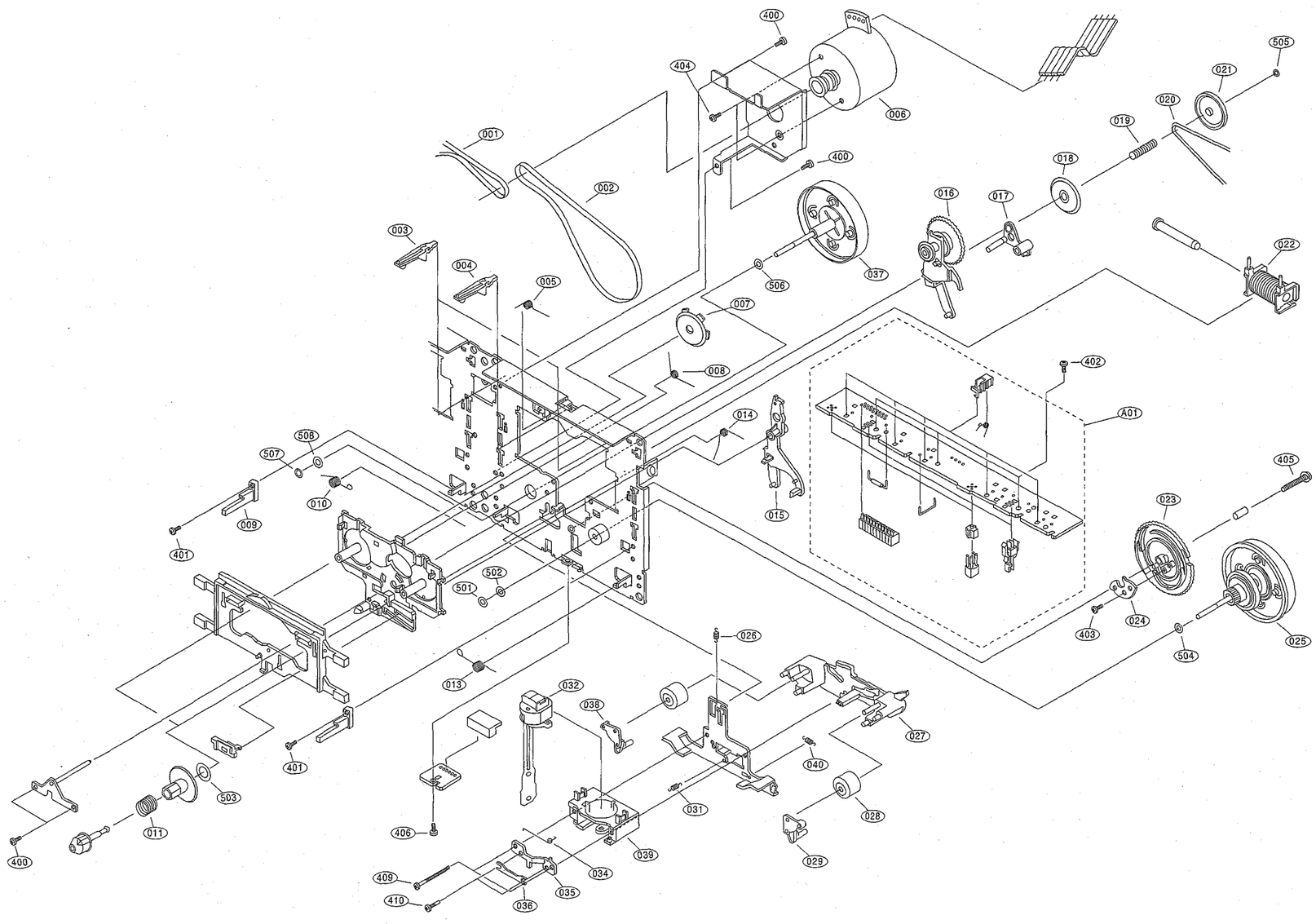
3-2

• TAPE DECK MECHANISM: AUTO STOP DECK(OPTIONAL)



LOCA. NO	PART NO.	SPECIFICATION
A00	6730R-G007A	CWL44FF25 TOKYO PIGEON L-DOUBL
A01	6768R-UP01A	50-093-4249 PIGEON UNIT PCB AS
001	6768R-BP01B	02-084-4202 PIGEON BELT / FELT C
002	6768R-BP01A	02-084-4204 PIGEON BELT / FELT C
003	6768R-AP01D	50-239-4027 PIGEON ARM CWL44
004	6768R-AP01E	50-239-4026 PIGEON ARM CWL44
005	6768R-SP01E	01-082-4599 PIGEON SPRING CWL4
006	6768R-QP01A	50-093-4316 PIGEON MOTOR(ASSY)
007	6768R-GP01A	50-093-4063 PIGEON GEAR CWL44
008	6768R-SP01F	01-082-4598 PIGEON SPRING CWL4
009	6768R-MP01C	50-219-4014 PIGEON MOLD CWL44
010	6768R-SP01C	01-082-4652 PIGEON SPRING CWL4
011	6768R-SP01A	01-081-4601 PIGEON SPRING CWL4
013	6768R-SP01B	01-082-4651 PIGEON SPRING CWL4
014	6768R-SP01G	01-082-4597 PIGEON SPRING CWL4
015	6768R-AP01A	50-268-3016 PIGEON ARM CWL44
016	6768R-GP01C	50-093-4069 PIGEON GEAR CWL44
017	6768R-AP01C	50-239-4072 PIGEON ARM CWL44
018	6768R-GP01D	50-222-4007 PIGEON GEAR CWL44
019	6768R-SP01H	01-081-4657 PIGEON SPRING CWL4
020	6768R-BP01C	02-083-4188 PIGEON BELT / FELT C
021	6768R-LP01A	50-223-4254 PIGEON PULLEY / FLYW
022	6768R-VP01A	50-093-4125 PIGEON SOLENOID CW
023	6768R-GP01B	50-221-3009 PIGEON GEAR CWL44
024	6768R-AP01B	50-139-4292 PIGEON ARM CWL44
025	6768R-JP01B	50-093-3361 PIGEON PULLEY / FLYW
026	6768R-SP01D	01-080-4609 PIGEON SPRING CWL4
027	6768R-MP01B	50-093-3036 PIGEON MOLD CWL44
028	6768R-RP01A	22-027-41054 PIGEON ROLLER CWL
029	6768R-MP01A	50-219-4033 PIGEON MOLD CWL44
030	6768R-HP01A	TC881CB067B PIGEON HEAD CWL44
031	6768R-SP01J	01-081-4605 PIGEON SPRING CWL4
032	6768R-HP01B	TC231F PIGEON HEAD CWL44
033	6768R-JP01A	50-093-3360 PIGEON PULLEY / FLYW
400	6768R-CP01A	GSE10A2003 PIGEON SCREW CWL44
401	6768R-CP01B	GSE20A2005 PIGEON SCREW CWL44
402	6768R-CP01C	GSE10A2004 PIGEON SCREW CWL44
403	6768R-CP01D	GSL10A1704 PIGEON SCREW CWL44
404	6768R-CP01E	GSP10A2603 PIGEON SCREW CWL44
405	6768R-CP01F	GSP11A2012 PIGEON SCREW CWL44
406	6768R-CP01G	GSE20A2004 PIGEON SCREW CWL44
407	6768R-CP01H	GSL20A2005 PIGEON SCREW CWL44
408	6768R-CP01J	03-300-4127 PIGEON SCREW CWL44
409	6768R-CP01K	GSL20A2008 PIGEON SCREW CWL44
501	6768R-WP01A	GWM19S035035 PIGEON WASHER CWL
502	6768R-WP01B	GWM17S050035S PIGEON WASHER CW
503	6768R-WP01C	GWM40X075010 PIGEON WASHER CWL
504	6768R-WP01D	GWP21X045020 PIGEON WASHER CWL
505	6768R-WP01E	GWP12X030040S PIGEON WASHER CW

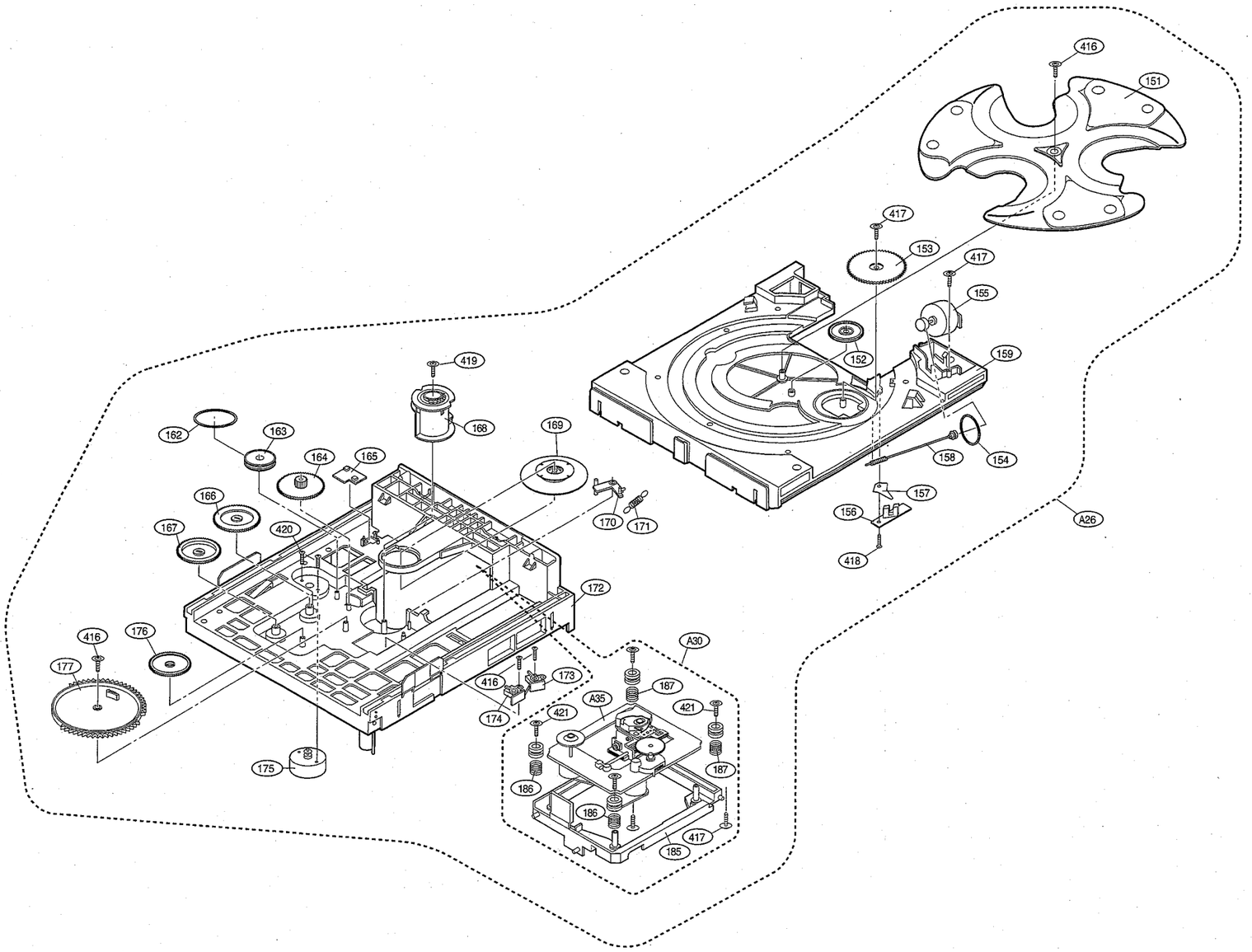
• TAPE DECK MECHANISM: AUTO REVERSE DECK



LOCA. NO	PART NO.	SPECIFICATION
A00	6730R-G007B	CDM-H1323 CD CHAN
A01	6768R-UP01A	50-093-4249 PCB AS
001	6768R-BP01B	02-084-4202 BELT/FELT
002	6768R-BP01A	02-084-4204 BELT/FELT
003	6768R-AP01D	50-239-4027 CWL44
004	6768R-AP01E	50-239-4026 ARM
005	6768R-SP01E	01-082-4654 SPRING
006	6768R-QP01A	50-093-4316 MOTOR
007	6768R-GP01A	50-093-4063 GEAR
008	6768R-SP01F	01-082-4598 SPRING
009	6768R-MP01C	50-219-4014 MOLD
010	6768R-SP01C	01-082-4652 SPRING
011	6768R-SP01A	01-081-4601 SPRING
013	6768R-SP01B	01-082-4651 SPRING
014	6768R-SP01G	01-082-4597 SPRING
015	6768R-AP01A	50-268-3016 ARM
016	6768R-GP01C	50-093-4069 GEAR
017	6768R-AP01C	50-239-4072 ARM
018	6768R-GP01D	50-222-4007 GEAR
019	6768R-SP01H	01-081-4657 SPRING
020	6768R-BP01C	02-083-4188 BELT/FELT
021	6768R-LP01A	50-223-4254 PULLEY
022	6768R-VP01A	50-093-4125 SOLENOID
023	6768R-GP01B	50-221-3009 GEAR
024	6768R-AP01B	50-139-4292 ARM
025	6768R-JP01B	50-093-3361 PULLEY
026	6768R-SP01D	01-080-4609 SPRING
027	6768R-DP01A	50-259-3342 LEVER
028	6768R-RP01A	22-027-41054 ROLLER
029	6768R-MP01A	50-219-4033 MOLD
031	6768R-SP01L	01-080-4649 SPRING
032	6768R-EP01A	50-093-4070 HEAD AY
033	6768R-JP01A	50-093-3360 PULLEY
034	6768R-SP01K	01-082-4650 SPRING
035	6768R-PP01A	50-119-4046 PRESS
036	6768R-PP01B	50-160-4108 PRESS
037	6768R-JP01C	50-093-3315 PULLEY
038	6768R-MP01D	50-219-4034 MOLD
040	6768R-SP01M	01-080-4607 SPRING
400	6768R-CP01A	GSE10A2003 SCREW
401	6768R-CP01B	GSE20A2005 SCREW
402	6768R-CP01C	GSE10A2004 SCREW
403	6768R-CP01D	GSL10A1704 SCREW
404	6768R-CP01E	GSP10A2603 SCREW
405	6768R-CP01F	GSP11A2012 SCREW
406	6768R-CP01G	GSE20A2004 SCREW
409	6768R-CP01L	GSD10A2018 SCREW
410	6768R-CP01M	03-300-4056 SCREW
501	6768R-WP01A	GWM19S035035 WASHER
502	6768R-WP01B	GWM17S050035S WASHER
503	6768R-WP01C	GWM40X075010 WASHER
504	6768R-WP01D	GWP21X045020 WASHER
505	6768R-WP01E	GWP12X030040S WASHER
506	6768R-WP01H	GWP23X040020 WASHER
507	6768R-WP01F	GWN21X040040 WASHER
508	6768R-WP01G	GWM19X055035S WASHER

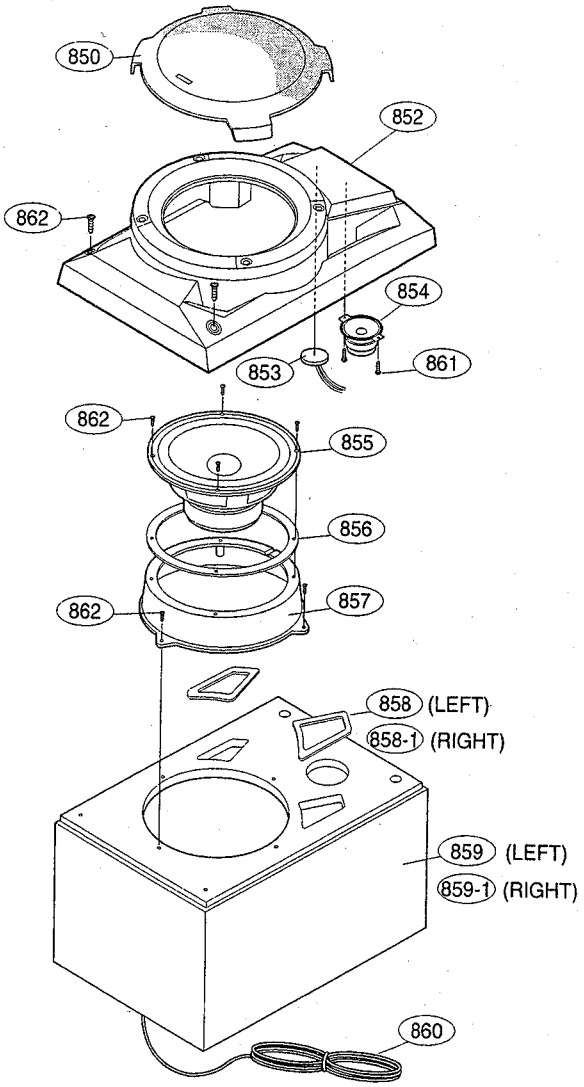
• CD MECHANISM

NOTE) Refer to "SECTION 5 REPLACEMENT PARTS LIST" in order to look for the part number of each part.



LOCA.NO.	PART NO	DESCRIPTION	SPECIFICATION
A26	4405RBE003F	MECHANISM ASSEMBLY	CDM-H133 LGEHZ 3 CD CHANGER (S
A30	3041RB0002C	BASE ASSEMBLY	PU(SPRING DAMPER)
A35	6717RCA001A	PICK UP ASSY	KSM-213VSCM SONY FRONT LOADING
151	3390SB0002A	TRAY	DISC (CDM-H1303)
152	4470SB0011A	GEAR	TRAY B (CDM-H1303)
153	4470SB0010A	GEAR	TRAY A (CDM-H1303)
154	4400SB0001B	BELT	TRAY(CDM-H1303)
155	4680SBP002A	MOTOR(MECH)	ASSY TRAY
156	6871SF21RAD	PWB(PCB) ASSY	3CH M/D SENSOR PWB ASSY
157	4974SB0003A	GUIDE	WORM (CDM-H1303)
158	4371SB0002A	SHAFT ASSY	TRAY (CDM-H1303)
159	3390SB0001A	TRAY	LOADING (CDM-H1303)
162	4400SB0001A	BELT	MAIN(CDM-H1303)
163	4470SB0003A	GEAR	PULLEY (CDM-H1303)
164	4470SB0004A	GEAR	LOADING (CDM-H1303)
165	6871SB21RAD	PWB(PCB) ASSY	3CH M/D U/D/O/C PWB ASSY
166	4470SB0006A	GEAR	PU DOWN (CDM-H1303)
167	4470SB0008A	GEAR	PU UP-B (CDM-H1303)
168	4471SB0001A	GEAR ASSY	GEAR CAM ASSY
169	4860SB0002A	CLAMP	CLAMP ASSY
170	4974SB0001A	GUIDE	CAM (CDM-H1303)
171	4970SBN002A	SPRING	CAM (CDM-H1303)
172	3040SB0002A	BASE	MAIN(CDM-H1303)
173	6871SD21RAD	PWB(PCB) ASSY	3CH M/D CAM PWB ASSY
174	6871SC21RAD	PWB(PCB) ASSY	3CH M/D OPEN PWB ASSY
175	4680SBP001A	MOTOR(MECH)	PULLEY ASSY (CDM-H1303)
176	4470SB0007A	GEAR	PU UP-A (CDM-H1303)
177	4470SB0005A	GEAR	MAIN (CDM-H1303)
184	4900RB0001A	DAMPER	RUBBER 3CD CHANGER
185	3040SB0003A	BASE	PU(CDM-H1303)
186	4970RB0001A	SPRING	COIL 3 CD CHANGER
187	4970RB0001B	SPRING	COIL 50 3CD CHANGER
416	88H-0004	CD MECHA PARTS	3X12X12FNM
417	88H-0002	CD MECHA PARTS	3X9X12FZMY
418	353-025BAAA	SCREW	#NAME?
419	88H-0003	CD MECHA PARTS	3X12X10FZMY
420	353S353F	SCREW	#NAME?
421	6756SBX001A	CD MECHANISM PARTS	SCREW 2.6X10X10XFZMY CDM-H813

SECTION 4. SPEAKER SECTION



RUN DATE : 09.JULY.2002

LOCA.NO.	PART NO	DESCRIPTION	SPECIFICATION	REMARKS
850	3701RM0011A	NET ASSY	JERSEY NET ASSY (FE-DV55VE)	NSP
851	3530RMM007A	GRILLE	GRILLE METAL (FE-DV55VE)	NSP
852	3720RMF013A	PANEL,FRONT	FRONT PANEL(L)(FE-DV55VE)	NSP
852-1	3720RMF014A	PANEL,FRONT	FRONT PANEL(R)(FE-DV55VE)	NSP
853	6400RMXY03A	SPEAKER,GENERAL	FE-DV55VE (PIEZO) HALF BALL SH	
854	6400RMTA01B	SPEAKER,TWEETER	F20T-D243 TOPTONE FE-874 8OHM	
855	6400SCTJ02A	SPEAKER,WOOFER	F65T-5690 TOPTONE 6-0 OHM 100	
856	4766SMN029A	FELT	WOOFER,FE-717E, BLACK	NSP
857	4350SM0012A	RING	WOOFER(FE-717E)	NSP
858	4766RM0008A	FELT	DUCT BLACK FE-DV55VE(L)	NSP
858-1	4766RM0008B	FELT	DUCT BLACK FE-DV55VE(R)	NSP
859	3091RMW017L	CABINET ASSY	FE-DV55VE PB 12T	NSP
859-1	3091RMW017M	CABINET ASSY	FE-DV55VE PB 12T (R)	NSP
860	6871RU4128B	PWB(PCB) ASSEMBLY,SUBSET(AUDIO	NETWORK ASSY FE-786E 2.2 UF +	NSP
861	353M025F	SCREW	TAPTITE, 3X8 FZMY"	
862	353M050C	SCREW	BH 3.5X16 FBK	

MEMO

SECTION 5. REPLACEMENT PARTS LIST

NOTE: Warning
⚠ Parts that are shaded are critical With respect to risk of fire or electrical shock.

• Cabinet & Main Frame Section **RUN DATE : 09.JULY.2002**

S	AL	LOCA.NO.	PART NO	DESCRIPTION	SPECIFICATION	REMARKS
				ASSEMBLY SECTION		
		A00	6730R-G007B	DECK,AUDIO	CWL44FR26 PIGEON L-DOUBLE A/RV	
		A26	4405RBE003F	MECHANISM ASSEMBLY	CDM-H133 LGEHZ 3 CD CHANGER (S	
		A41	6871R-5761E	PWB(PCB) ASSEMBLY,TOTAL	FFH-386/586/786/886/986 3CDP M	
		A43	6871RF5127C	PWB(PCB) ASSEMBLY,FRONT(AUDIO)	FFH-786AD, FRONT PCB ASSY, CE,	
		A46	6871R-5126C	PWB(PCB) ASSEMBLY,TOTAL	FFH-786AD, MAIN TOTAL ASSY, CE	
		A47	6871RP5128D	PWB(PCB) ASSEMBLY,POWER(MULTI)	FFH-786AD, POWER PCB ASSY, CE,	
				PARTS SECTION		
		250	3720RCF148D	PANEL,FRONT	FFH-786	
		257	3580RCC011A	DOOR,CASE	CD F-586	
		260	3790RCP033E	WINDOW,DECO	AMP F-786 SURROUND,A/R,RDS	
		262	3550RC0364A	COVER	FRONT FFH-586 A/RVS,RDS	
		263	3790RCP034A	WINDOW,DECO	XDSS F-586	
		267	3680RCA017A	LENS	JOG FFH-586	
		268	3790RCP032B	WINDOW,DECO	CD F-586 PRINT TYPE	
		271	3680RCA016A	LENS	FUNCTION FFH-586	
		275	4930RC0017A	HOLDER,SHELF	CST DOOR-L FFH-586	
		276	4930RC0018A	HOLDER,SHELF	CST DOOR-R FFH-586	
		277	3550RC0368G	COVER	CST DOOR-L FFH-786AD QUELLE	
		278	3550RC0369D	COVER	CST DOOR-R FFH-786(UK) A/RVS	
		284	4901R-0002C	DAMPER ASSY	ST DAMPER(WHITE)150	
		285	4974R-0041A	GUIDE	EJECT ASSY-L	
		286	442-085E	SPRING	SPRING-DOOR (F-101)50D L=35	
		287	442-577A	SPRING	SPRING CST-PACK(H=6)	
		288	4974R-0042A	GUIDE	EJECT ASSY-R	
		291	4940RCT062A	KNOB	FUNCTION FFH-586	
		292	4940RCT064A	KNOB	DECK FFH-586	
		293	4940RCT061A	KNOB	OPEN/CLOSE FFH-586	
		295	4940RCT063A	KNOB	EQ FFH-586	
		296	4940RCV021A	KNOB	JOG FFH-586	
		297	4930RC0016A	HOLDER,SHELF	JOG KNOB FFH-586	
		301	3720RCM031A	PANEL,AUDIO	BACK F-386/586 75OHM OPTICAL	
		302	3140RC0001A	CHASSIS	MAIN(MINI COMPO)	
		303	3610RC0001A	FOOT	MOLD FOR JBL	
⚠		305	6410RCHZ05A	POWER CORD	CE-503/KKJ-1004A(ST-HS:200MM)	2877843 733260
		306	472-190K	FELT	11X3.2T BLACK JBL	
		351	3090RCM001L	CABINET	TOP (W/O SPRAY)	
		352	246-444P	DECORATION	PLATE CABINET TOP(W/O SPRAY)	
		353	353-025C	SCREW	TAPTITE 3X10 FBK	
		354	3720RCM038A	PANEL,AUDIO	SIDE(NO VENT HOLE)	
				SCREW		
		450	1TRL0302018	BRAIZER HEAD TA SCREW + 2 CUT	D 3.0 L 6.0 MSWR3/FZY	
		451	1TRL0402418	BRAIZER HEAD TA SCREW + 2 CUT	D 4.0 L 8.0 MSWR3/FZY	
		454	353-025C	SCREW	TAPTITE 3X10 FBK	
• Packing & Accessory Section						
		801	3829RAT049N	MANUAL ASSEMBLY,OWNERS	FFH-786AD.JA1AQUA/JA3GQUA (VTC	
		802	3890RCC046M	BOX,MASTER	FFH-786AD JA1AQUA QUELLE_AUSTR	
		803	3920RCE015A	PACKING,CASING	FFH-586 0.02 1 EPS 2 1 1	
		813	841N0015	BATTERY,MANGANESE	R03G=0012 HI WATT 1-5 V - NO M	
		814	632N218E	COIL,ANTENNAT	KS951212-01 KWANGSUNG LOOP	
		900	6710RCWC01C	REMOTE CONTROLLER	41KEY DONGDO FFH-786AD QUELLE	
• Other Parts Section						
		BK801	4810S-7829A	BRACKET	CD MOTOR(0.3T)NEW-MD	
		BK802	4810S-7829A	BRACKET	CD MOTOR(0.3T)NEW-MD	

S	AL	LOCA.NO.	PART NO	DESCRIPTION	SPECIFICATION	REMARKS
				CAPACITOR		
		C101	0CN1030F679	CAPACITOR TUBULA(HIGH DIELE)	10000P 16V M Y TA52	
		C102	0CK1040K945	CAPACITOR,CERAMIC (HIGH DIELEC	0.1M 50V Z F TS	
		C103	0CN1020K519	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA52	
		C108	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C109	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C110	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C111	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C112	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C113	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C114	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C115	0CQ1531N409	CAPACITOR POLYESTER(MYLAR)	0.015U 100V J POLY TP	
		C116	0CQ1531N409	CAPACITOR POLYESTER(MYLAR)	0.015U 100V J POLY TP	
		C117	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C118	0CN3310K519	CAPACITOR TUBULA(HIGH DIELE)	330P 50V K B TA52	
		C119	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C120	0CE3356K618	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SMS,SG 50V 20% FL TP 5	
		C121	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C122	0CC1000K015	CAPACITOR,CERAMIC(TEMP COMP)	10P 50V C NP0 TS	
		C123	0CE3366F618	CAPACITOR,ELECTROLYTIC	33M SMS 16V M FL TP(5)	
		C124	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C126	0CN4730K949	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)	
		C127	0CN1020K519	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA52	
		C129	0CN2220F669	CAPACITOR TUBULA(HIGH DIELE)	2200P 16V M X TA52	
		C130	0CK4730K945	CAPACITOR,CERAMIC (HIGH DIELEC	0.047UF 50V Z F TR	
		C131	0CX3300K409	CAPACITOR TUBULA(T.C)	33P 50V J SL TA52	
		C132	0CX3000K409	CAPACITOR TUBULA(T.C)	30P 50V J SL TA52	
		C133	0CN1020K519	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA52	
		C135	0CE2276D618	CAPACITOR,ELECTROLYTIC	220UF SMS 10V M FL TP5	
		C136	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C138	0CK4730K945	CAPACITOR,CERAMIC (HIGH DIELEC	0.047UF 50V Z F TR	
		C139	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C140	0CC1000K015	CAPACITOR,CERAMIC(TEMP COMP)	10P 50V C NP0 TS	
		C142	0CN4730K949	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)	
		C143	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C144	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C145	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C146	0CE3356K618	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SMS,SG 50V 20% FL TP 5	
		C148	0CQ4731N409	CAPACITOR POLYESTER(MYLAR)	0.047U 100V J POLY TP	
		C149	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C150	0CE2276F618	CAPACITOR,ELECTROLYTIC	220M SMS 16V M FM5 TP(5)	
		C151	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C152	0CN2220F669	CAPACITOR TUBULA(HIGH DIELE)	2200P 16V M X TA52	
		C153	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C154	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C156	0CN3310K519	CAPACITOR TUBULA(HIGH DIELE)	330P 50V K B TA52	
		C157	0CN1010K519	CAPACITOR,FIXED TUBULAR(HIGH D	100PF D 50V 10% B(Y5P) TA52	
		C158	0CN1030F679	CAPACITOR TUBULA(HIGH DIELE)	10000P 16V M Y TA52	
		C159	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C187	0CN1020K519	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA52	
		C188	0CN1020K519	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA52	
		C190	0CN8200K519	CAPACITOR TUBULA(HIGH DIELE)	82P 50V K B TA52	
		C191	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C192	0CE2276F618	CAPACITOR,ELECTROLYTIC	220M SMS 16V M FM5 TP(5)	
		C196	0CX1200K419	CAPACITOR,TUBULAR(T.C)	12PF 50V J NP0 TA52	
		C197	0CE1066J618	CAPACITOR,ELECTROLYTIC	10M SMS 35V M FL TP(5)	
		C198	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C201	0CN1220F669	CAPACITOR TUBULA(HIGH DIELE)	1200P 16V M X TA52	
		C203	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C204	0CN1820F669	CAPACITOR TUBULA(HIGH DIELE)	1800P 16V M X TA52	
		C205	0CN3320F669	CAPACITOR,TUBULAR(HIGH DIELEC)	3300PF 16V M X TA52	
		C206	0CE2256K618	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SMS,SG 50V 20% FL TP 5	
		C207	0CN2210K519	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA52	
		C208	0CN1220F669	CAPACITOR TUBULA(HIGH DIELE)	1200P 16V M X TA52	
		C210	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C211	0CN3310K519	CAPACITOR TUBULA(HIGH DIELE)	330P 50V K B TA52	
		C212	0CN3310K519	CAPACITOR TUBULA(HIGH DIELE)	330P 50V K B TA52	
		C213	0CQ1031N409	CAPACITOR POLYESTER(MYLAR)	0.01UF 100V J PE TP	
		C214	0CE4756K618	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SMS,SG 50V 20% FL TP 5	

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S	AL	LOCA.NO.	PART NO	DESCRIPTION	SPECIFICATION	REMARKS
		C215	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C216	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C218	0CN2220F669	CAPACITOR TUBULA(HIGH DIELE)	2200P 16V M X TA52	
		C221	0CN1020K519	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA52	
		C227	0CQ1021N409	CAPACITOR,POLYESTER(MYLAR)	0.001U 100V J POLY TP	
		C230	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C231	0CE4756K618	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SMS,SG 50V 20% FL TP 5	
		C233	0CQ1221R449	CAPACITOR POLYESTER(MYLAR)	1200P 250V J PYLN TP	
		C234	0CQ5621N409	CAPACITOR POLYESTER(MYLAR)	0.0056U 100V J POLY TP	
		C235	0CQ5631N409	CAPACITOR,POLYESTER(MYLAR)	0.056U 100V J POLY TP	
		C236	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C237	0CQ1531N409	CAPACITOR POLYESTER(MYLAR)	0.015U 100V J POLY TP	
		C238	0CE1066J618	CAPACITOR,ELECTROLYTIC	10M SMS 35V M FL TP(5)	
		C239	0CN4730K949	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)	
		C240	0CE1066J618	CAPACITOR,ELECTROLYTIC	10M SMS 35V M FL TP(5)	
		C241	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C242	0CN1220F669	CAPACITOR TUBULA(HIGH DIELE)	1200P 16V M X TA52	
		C251	0CN1220F669	CAPACITOR TUBULA(HIGH DIELE)	1200P 16V M X TA52	
		C254	0CN1820F669	CAPACITOR TUBULA(HIGH DIELE)	1800P 16V M X TA52	
		C255	0CN3320F669	CAPACITOR,TUBULAR(HIGH DIELEC)	3300PF 16V M X TA52	
		C256	0CE2256K618	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SMS,SG 50V 20% FL TP 5	
		C257	0CN2210K519	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA52	
		C258	0CN1220F669	CAPACITOR TUBULA(HIGH DIELE)	1200P 16V M X TA52	
		C260	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C261	0CN3310K519	CAPACITOR TUBULA(HIGH DIELE)	330P 50V K B TA52	
		C262	0CN3310K519	CAPACITOR TUBULA(HIGH DIELE)	330P 50V K B TA52	
		C263	0CQ1031N409	CAPACITOR POLYESTER(MYLAR)	0.01UF 100V J PE TP	
		C264	0CE4756K618	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SMS,SG 50V 20% FL TP 5	
		C265	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C266	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C268	0CN2220F669	CAPACITOR TUBULA(HIGH DIELE)	2200P 16V M X TA52	
		C271	0CN1020K519	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA52	
		C275	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C276	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C277	0CE2256K618	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SMS,SG 50V 20% FL TP 5	
		C278	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C279	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C280	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C281	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C292	0CN1220F669	CAPACITOR TUBULA(HIGH DIELE)	1200P 16V M X TA52	
		C295	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C301	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C302	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C303	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C304	0CE4766K618	CAPACITOR,ELECTROLYTIC	47M SMS 50V M FM5 TP(5)	
		C306	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C307	0CN2220F669	CAPACITOR TUBULA(HIGH DIELE)	2200P 16V M X TA52	
		C308	0CX3300K409	CAPACITOR TUBULA(T.C)	33P 50V J SL TA52	
		C309	0CX3300K409	CAPACITOR TUBULA(T.C)	33P 50V J SL TA52	
		C311	0CX2200K409	CAPACITOR,FIXED TUBULAR(TEMP.C	22PF D 50V 5% SL TA52	
		C312	0CX2200K409	CAPACITOR,FIXED TUBULAR(TEMP.C	22PF D 50V 5% SL TA52	
		C313	0CE1046K618	CAPACITOR,ELECTROLYTIC	0.1M SMS 50V M FL TP(5)	
		C315	0CE1046K618	CAPACITOR,ELECTROLYTIC	0.1M SMS 50V M FL TP(5)	
		C316	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C317	0CE3366F618	CAPACITOR,ELECTROLYTIC	33M SMS 16V M FL TP(5)	
		C318	0CX3300K409	CAPACITOR TUBULA(T.C)	33P 50V J SL TA52	
		C319	0CX3300K409	CAPACITOR TUBULA(T.C)	33P 50V J SL TA52	
		C320	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C321	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C322	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C323	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C324	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C326	0CE2256K618	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SMS,SG 50V 20% FL TP 5	
		C327	0CN5610K519	CAPACITOR TUBULA(HIGH DIELE)	560P 50V K B TA52	
		C328	0CN3310K519	CAPACITOR TUBULA(HIGH DIELE)	330P 50V K B TA52	
		C331	0CX3300K409	CAPACITOR TUBULA(T.C)	33P 50V J SL TA52	
		C332	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C400	0CN2210K519	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA52	
		C402	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	

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S	AL	LOCA.NO.	PART NO	DESCRIPTION	SPECIFICATION	REMARKS
		C403	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C404	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C405	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C406	0CN5620F669	CAPACITOR TUBULA(HIGH DIELE)	5600P 16V M X TA(52)	
		C407	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C408	0CQ1831N409	CAPACITOR POLYESTER(MYLAR)	0.018U 100V J POLY TP	
		C409	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C410	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C411	0CE2256K618	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SMS,SG 50V 20% FL TP 5	
		C412	0CN1520F669	CAPACITOR TUBULA(HIGH DIELE)	1500P 16V M X TA52	
		C413	0CE4756K618	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SMS,SG 50V 20% FL TP 5	
		C416	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C417	0CE4756K618	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SMS,SG 50V 20% FL TP 5	
		C423	0CN2210K519	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA52	
		C424	0CN2210K519	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA52	
		C425	0CE4756K618	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SMS,SG 50V 20% FL TP 5	
		C434	0CE2266F618	CAPACITOR,ELECTROLYTIC	22M SMS 16V M FM5 TP(5)	
		C435	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C436	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C437	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C438	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C440	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C441	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C442	0CN4720F669	CAPACITOR TUBULA(HIGH DIELE)	4700P 16V M X TA52	
		C443	0CE4756K618	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SMS,SG 50V 20% FL TP 5	
		C444	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C445	0CN1220F669	CAPACITOR TUBULA(HIGH DIELE)	1200P 16V M X TA52	
		C446	0CN5620F669	CAPACITOR TUBULA(HIGH DIELE)	5600P 16V M X TA(52)	
		C447	0CE6846K618	CAPACITOR,ELECTROLYTIC	0.68M SMS 50V M FL TP(5)	
		C448	0CE2256K618	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SMS,SG 50V 20% FL TP 5	
		C450	0CN2210K519	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA52	
		C452	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C453	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C454	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C455	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C456	0CN5620F669	CAPACITOR TUBULA(HIGH DIELE)	5600P 16V M X TA(52)	
		C457	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C458	0CQ1831N409	CAPACITOR POLYESTER(MYLAR)	0.018U 100V J POLY TP	
		C459	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C460	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C461	0CE2256K618	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SMS,SG 50V 20% FL TP 5	
		C463	0CE4756K618	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SMS,SG 50V 20% FL TP 5	
		C466	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C467	0CE4756K618	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SMS,SG 50V 20% FL TP 5	
		C472	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C474	0CE1066J618	CAPACITOR,ELECTROLYTIC	10M SMS 35V M FL TP(5)	
		C475	0CE4756K618	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SMS,SG 50V 20% FL TP 5	
		C493	0CE4756K618	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SMS,SG 50V 20% FL TP 5	
		C497	0CE1066F618	CAPACITOR,FIXED ELECTROLYTIC	10UF SMS,SG 16V 20% FL TP 5	
		C498	0CE3346K618	CAPACITOR,ELECTROLYTIC	0.33M SMS 50V M FL TP(5)	
		C499	0CE3346K618	CAPACITOR,ELECTROLYTIC	0.33M SMS 50V M FL TP(5)	
		C701	0CN1810K519	CAPACITOR TUBULA(HIGH DIELE)	180P 50V K B TA52	
		C702	0CE2256K618	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SMS,SG 50V 20% FL TP 5	
		C703	0CE3366F618	CAPACITOR,ELECTROLYTIC	33M SMS 16V M FL TP(5)	
		C704	0CX3R90K519	CAPACITOR,TUBULAR(T.C)	3.9PF 50V K NP0 TA52	
		C705	0CQ1041N409	CAPACITOR POLYESTER(MYLAR)	0.1U 100V J POLY TP	
		C707	0CE1076K618	CAPACITOR,ELECTROLYTIC	100UF SMS 50V M FL TP5	
		C708	0CE1076K618	CAPACITOR,ELECTROLYTIC	100UF SMS 50V M FL TP5	
		C709	0CQ1041N409	CAPACITOR POLYESTER(MYLAR)	0.1U 100V J POLY TP	
		C710	0CN1010K519	CAPACITOR,FIXED TUBULAR(HIGH D	100PF D 50V 10% B(Y5P) TA52	
		C711	0CQ1041N409	CAPACITOR POLYESTER(MYLAR)	0.1U 100V J POLY TP	
		C712	0CN5620F669	CAPACITOR TUBULA(HIGH DIELE)	5600P 16V M X TA(52)	
		C713	0CQ4731N409	CAPACITOR POLYESTER(MYLAR)	0.047U 100V J POLY TP	
		C714	0CQ2221N409	CAPACITOR POLYESTER(MYLAR)	0.0022U 100V J POLY TP	
		C715	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C716	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C717	0CK1040K945	CAPACITOR,CERAMIC (HIGH DIELEC	0.1M 50V Z F TS	
		C718	0CK1040K945	CAPACITOR,CERAMIC (HIGH DIELEC	0.1M 50V Z F TS	
		C720	0CE338H96A0	CAPACITOR,AL.ELECTROLYTIC	3300UF DL 75V M VNSN BULK	

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		C725	0CE2276D618	CAPACITOR,ELECTROLYTIC	220UF SMS 10V M FL TP5	
		C726	0CE2276F618	CAPACITOR,ELECTROLYTIC	220M SMS 16V M FM5 TP(5)	
		C727	0CE4776F618	CAPACITOR,ELECTROLYTIC	470UF SMS 16V M FL TP5	
		C728	0CE3386J650	CAPACITOR,AL.ELECTROLYTIC	3300U SMS 35V M FM7.5	
		C730	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C731	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C732	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C733	0CQ4731N409	CAPACITOR POLYESTER(MYLAR)	0.047U 100V J POLY TP	
		C734	0CQ4731N409	CAPACITOR POLYESTER(MYLAR)	0.047U 100V J POLY TP	
		C736	0CE4766K618	CAPACITOR,ELECTROLYTIC	47M SMS 50V M FM5 TP(5)	
		C737	0CE3356K618	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SMS,SG 50V 20% FL TP 5	
		C738	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C739	0CE4766K618	CAPACITOR,ELECTROLYTIC	47M SMS 50V M FM5 TP(5)	
		C740	0CE4766K618	CAPACITOR,ELECTROLYTIC	47M SMS 50V M FM5 TP(5)	
		C741	0CE4766K618	CAPACITOR,ELECTROLYTIC	47M SMS 50V M FM5 TP(5)	
		C742	0CE1076L638	CAPACITOR,FIXED ELECTROLYTIC	100UF SMS,SG 63V 20% FM5 TP 5	
		C743	0CE2276D618	CAPACITOR,ELECTROLYTIC	220UF SMS 10V M FL TP5	
		C744	0CE4776F618	CAPACITOR,ELECTROLYTIC	470UF SMS 16V M FL TP5	
		C751	0CN1810K519	CAPACITOR TUBULA(HIGH DIELE)	180P 50V K B TA52	
		C752	0CE2256K618	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SMS,SG 50V 20% FL TP 5	
		C753	0CE3366F618	CAPACITOR,ELECTROLYTIC	33M SMS 16V M FL TP(5)	
		C754	0CX3R90K519	CAPACITOR,TUBULAR(T.C)	3.9PF 50V K NP0 TA52	
		C757	0CE1076K618	CAPACITOR,ELECTROLYTIC	100UF SMS 50V M FL TP5	
		C758	0CE1076K618	CAPACITOR,ELECTROLYTIC	100UF SMS 50V M FL TP5	
		C760	0CN1010K519	CAPACITOR,FIXED TUBULAR(HIGH D	100PF D 50V 10% B(Y5P) TA52	
		C762	0CN5620F669	CAPACITOR TUBULA(HIGH DIELE)	5600P 16V M X TA(52)	
		C763	0CQ4731N409	CAPACITOR POLYESTER(MYLAR)	0.047U 100V J POLY TP	
		C764	0CQ2221N409	CAPACITOR POLYESTER(MYLAR)	0.0022U 100V J POLY TP	
		C766	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C770	0CE338H96A0	CAPACITOR,AL.ELECTROLYTIC	3300UF DL 75V M VNSN BULK	
		C771	0CQ4731N409	CAPACITOR POLYESTER(MYLAR)	0.047U 100V J POLY TP	
		C772	0CQ4731N409	CAPACITOR POLYESTER(MYLAR)	0.047U 100V J POLY TP	
		C778	0CE3386J650	CAPACITOR,AL.ELECTROLYTIC	3300U SMS 35V M FM7.5	
		C779	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C780	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C781	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C782	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C783	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C784	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C785	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C787	0CE2256K618	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SMS,SG 50V 20% FL TP 5	
		C788	0CE2256K618	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SMS,SG 50V 20% FL TP 5	
		C789	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C801	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C802	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C803	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C804	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C805	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C806	0CN1020K519	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA52	
		C807	0CN4730K949	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)	
		C808	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C809	0CX4700K409	CAPACITOR,FIXED TUBULAR(TEMP.C	47PF D 50V 5% SL TA52	
		C810	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C811	0CN4720F669	CAPACITOR TUBULA(HIGH DIELE)	4700P 16V M X TA52	
		C812	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C813	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C814	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C815	0CE1046K618	CAPACITOR,ELECTROLYTIC	0.1M SMS 50V M FL TP(5)	
		C816	0CN4720F669	CAPACITOR TUBULA(HIGH DIELE)	4700P 16V M X TA52	
		C817	0CN2220K519	CAPACITOR,FIXED TUBULAR(High d	2200PF D 50V 10% B(Y5P) TA52	
		C818	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C819	0CX4700K409	CAPACITOR,FIXED TUBULAR(TEMP.C	47PF D 50V 5% SL TA52	
		C820	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C821	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C822	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C823	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C824	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C825	0CN1520F569	CAPACITOR,TUBULAR(HIGH DIELEC)	1500PF 16V K X TA52	
		C826	0CN1520F569	CAPACITOR,TUBULAR(HIGH DIELEC)	1500PF 16V K X TA52	

S	AL	LOCA.NO.	PART NO	DESCRIPTION	SPECIFICATION	REMARKS
		C827	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C828	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C829	0CE1066F618	CAPACITOR,FIXED ELECTROLYTIC	10UF SMS,SG 16V 20% FL TP 5	
		C830	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C831	0CE1066F618	CAPACITOR,FIXED ELECTROLYTIC	10UF SMS,SG 16V 20% FL TP 5	
		C832	0CN1030F679	CAPACITOR TUBULA(HIGH DIELE)	10000P 16V M Y TA52	
		C833	0CX1500K419	CAPACITOR,TUBULAR(T.C)	15PF 50V J NP0 TA52	
		C834	0CX1500K419	CAPACITOR,TUBULAR(T.C)	15PF 50V J NP0 TA52	
		C835	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C836	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C837	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C838	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C839	0CN4730K949	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)	
		C840	0CN1050K949	CAPACITOR,TUBULAR(HIGH DIELEC)	1UF 50V Z F TA52 D	
		C841	0CX2200K409	CAPACITOR,FIXED TUBULAR(TEMP.C	22PF D 50V 5% SL TA52	
		C842	0CX2200K409	CAPACITOR,FIXED TUBULAR(TEMP.C	22PF D 50V 5% SL TA52	
		C843	0CX2200K409	CAPACITOR,FIXED TUBULAR(TEMP.C	22PF D 50V 5% SL TA52	
		C844	0CN1030F679	CAPACITOR TUBULA(HIGH DIELE)	10000P 16V M Y TA52	
		C845	0CX2200K409	CAPACITOR,FIXED TUBULAR(TEMP.C	22PF D 50V 5% SL TA52	
		C846	0CN1020K519	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA52	
		C847	0CN1020K519	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA52	
		C848	0CN1020K519	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA52	
		C849	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C850	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C851	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C852	0CN1030F679	CAPACITOR TUBULA(HIGH DIELE)	10000P 16V M Y TA52	
		C853	0CN1020K519	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA52	
		C854	0CN1020K519	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA52	
		C855	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C856	0CE4776F618	CAPACITOR,ELECTROLYTIC	470UF SMS 16V M FL TP5	
		C857	0CE4776F618	CAPACITOR,ELECTROLYTIC	470UF SMS 16V M FL TP5	
		C858	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C859	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C860	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C864	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C867	0CN1020K519	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA52	
		C888	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C889	0CN1030F679	CAPACITOR TUBULA(HIGH DIELE)	10000P 16V M Y TA52	
		C901	0CN2230H949	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C902	0CK1040K945	CAPACITOR,CERAMIC (HIGH DIELEC	0.1M 50V Z F TS	
		C903	0CK1040K945	CAPACITOR,CERAMIC (HIGH DIELEC	0.1M 50V Z F TS	
		C907	0CK1040K945	CAPACITOR,CERAMIC (HIGH DIELEC	0.1M 50V Z F TS	
		W223	0CN1040K949	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
				COIL		
		L101	6140SCD001A	COIL,IFT	KSNT-105I IFT KWANGSUNG BULK	
		L102	637N009A	INDUCTOR	33MH C/CORE (=N008A)	
		L106	6140SCJ004A	COIL,OSCILLATOR	KSZ-73C OSC KWANGSUNG BULK	
		L107	6140SCB001D	COIL,RF	RF,MW TUNING UNIT(634-700E) CE	
		L109	0LA0102K019	INDUCTOR AXIAL LEAD	10M K 2.3X3.4 L5 TP(52M/M)	
		L203	6140SCR001A	COIL,OSCILLATOR	LKS75M00-X000291-0 REC BIAS K	
		L801	0LA0221K019	INDUCTOR AXIAL LEAD	2.2M K 2.3X3.4 L5 TP(52M/M)	
		L802	0LA0221K019	INDUCTOR AXIAL LEAD	2.2M K 2.3X3.4 L5 TP(52M/M)	
		L803	0LA0221K019	INDUCTOR AXIAL LEAD	2.2M K 2.3X3.4 L5 TP(52M/M)	
				DIGITRON		
		FIP301	6302RCV121A	DIGITRON	VFD40-1611F ZEC SEG VFD MINI C	
				DIODE		
		D105	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D106	0DD133009AB	DIODE,SWITCHING	12	
		D108	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D109	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D150	0DD133009AB	DIODE,SWITCHING	12	
		D201	0DD133009AB	DIODE,SWITCHING	12	
		D301	0DD133009AB	DIODE,SWITCHING	12	
		D302	0DD133009AB	DIODE,SWITCHING	12	
		D305	0DD133009AB	DIODE,SWITCHING	12	
		D307	0DD133009AB	DIODE,SWITCHING	12	
		D312	0DD133009AB	DIODE,SWITCHING	12	
		D313	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	

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S	AL	LOCA.NO.	PART NO	DESCRIPTION	SPECIFICATION	REMARKS
		D314	0DD133009AB	DIODE,SWITCHING	12	
		D315	0DD133009AB	DIODE,SWITCHING	12	
		D317	0DD133009AB	DIODE,SWITCHING	12	
		D318	0DD133009AB	DIODE,SWITCHING	12	
		D319	0DD133009AB	DIODE,SWITCHING	12	
		D320	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D321	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D322	0DD133009AB	DIODE,SWITCHING	12	
		D323	0DD133009AB	DIODE,SWITCHING	12	
		D330	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D360	0DD133009AB	DIODE,SWITCHING	12	
		D481	0DD133009AB	DIODE,SWITCHING	12	
		D611	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D701	0DD133009AB	DIODE,SWITCHING	12	
		D702	0DD133009AB	DIODE,SWITCHING	12	
		D703	0DD133009AB	DIODE,SWITCHING	12	
		D704	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D705	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D706	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D707	0DD133009AB	DIODE,SWITCHING	12	
		D708	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D709	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D710	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D712	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D713	0DD133009AB	DIODE,SWITCHING	12	
⚠		D720	0DR154020AA	DIODE,RECTIFIERS	1N5402-10C BK GULF SEMICONDUCT	
⚠		D721	0DR154020AA	DIODE,RECTIFIERS	1N5402-10C BK GULF SEMICONDUCT	
		D722	0DR154020AA	DIODE,RECTIFIERS	1N5402-10C BK GULF SEMICONDUCT	
		D723	0DR154020AA	DIODE,RECTIFIERS	1N5402-10C BK GULF SEMICONDUCT	
		D730	0DD133009AB	DIODE,SWITCHING	12	
		D731	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D732	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D733	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D734	0DR102109AA	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D735	0DD133009AB	DIODE,SWITCHING	12	
		D751	0DD133009AB	DIODE,SWITCHING	12	
		D801	0DD133009AB	DIODE,SWITCHING	12	
				FILTER		
		CF101	6200C000011	FILTER(CIRC),BAND PASS	SFELA10M7HH0G-A0 MURATA TP 10.	
		CF102	6200C000011	FILTER(CIRC),BAND PASS	SFELA10M7HH0G-A0 MURATA TP 10.	
		CF103	6200C000011	FILTER(CIRC),BAND PASS	SFELA10M7HH0G-A0 MURATA TP 10.	
		FB116	631T603R	FILTER(CIRC),EMC	BFS2545A0F(52MM TP) SAMHWA TP	
		FB201	631T603R	FILTER(CIRC),EMC	BFS2545A0F(52MM TP) SAMHWA TP	
		FB202	631T603R	FILTER(CIRC),EMC	BFS2545A0F(52MM TP) SAMHWA TP	
		FB251	631T603R	FILTER(CIRC),EMC	BFS2545A0F(52MM TP) SAMHWA TP	
		FB252	631T603R	FILTER(CIRC),EMC	BFS2545A0F(52MM TP) SAMHWA TP	
		FB301	631T603R	FILTER(CIRC),EMC	BFS2545A0F(52MM TP) SAMHWA TP	
		FB302	631T603R	FILTER(CIRC),EMC	BFS2545A0F(52MM TP) SAMHWA TP	
		FB401	631T603R	FILTER(CIRC),EMC	BFS2545A0F(52MM TP) SAMHWA TP	
		FB703	631T603R	FILTER(CIRC),EMC	BFS2545A0F(52MM TP) SAMHWA TP	
		W806	631T603R	FILTER(CIRC),EMC	BFS2545A0F(52MM TP) SAMHWA TP	
				FUSE		
⚠		F602	0FS8001B51B	FUSE,SLOW BLOW	FUSE 8000MA 250 V 5.2X20 CY/GL	
⚠		F603	0FT4001B513	FUSE,TIME LAG	4000MA 250 V 5.2X20 CY/GL SEMK	
⚠		F604	0FT4001B513	FUSE,TIME LAG	4000MA 250 V 5.2X20 CY/GL SEMK	
⚠		F605	0FS8001B51B	FUSE,SLOW BLOW	FUSE 8000MA 250 V 5.2X20 CY/GL	
				IC		
		IC102	0ISA183700A	IC,SANYO	LA1837 30P DIP BK AM/FM IF MPX	
		IC103	0ISA721310A	IC,SANYO	LC72131D 22P DIP BK PLL FOR TU	
		IC201	0IRH312600A	IC,ROHM	BA3126N . BK HI VOL. HEAD	
		IC202	0IKE628900A	IC,KEC	KIA6289N (=0IKE818900A)NDIP-24	
		IC203	0IRH209000A	IC,ROHM	BU2090F 16PIN SOP BK EXPANDER	
		IC301	0IMCRSA019A	IC,MICRO CONTROLLER	LC876764A-50L0 SANYO 100PIN QF	
		IC302	0IMY700000A	IC,MSI	MSGEQ7 8P DIP BK 7 BAND GRAPHI	
		IC303	0IRH209000A	IC,ROHM	BU2090F 16PIN SOP BK EXPANDER	
		IC304	0IRH192300A	IC,ROHM	BU1923F 16P SOP ST RDS DEMODUL	
		IC401	0IPRPSG010A	IC,PERIPHERALS	TDA-7429T SGS-THOMSON QFP TRAY	
		IC402	0IKE455800A	IC,KEC	KIA4558P 8DIP LIN OP-AMP	
⚠		IC701	0IPMGSA004A	IC,POWER MANAGEMENT	STK412-010 SANYO SIP BK H-PWR	

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⚠		IC703	0IPMGKE012A	IC,POWER MANAGEMENT	KIA7805API-CU KEC 3P TO-220(CU	
⚠		IC704	0IPMGKE012A	IC,POWER MANAGEMENT	KIA7805API-CU KEC 3P TO-220(CU	
⚠		IC705	0IKE781200S	IC,KEC	KIA78R12PI CU 4P TO-220IS ST 1	
⚠		IC707	0IPMGKE015A	IC,POWER MANAGEMENT	KIA7815API-CU KEC 3P TO-220(CU	
		IC801	0ILNRSA008A	IC,LINEAR	LC78645NE-D SANYO 80 QFP TRAY	
		IC802	0ILNRFA012A	IC,LINEAR	FAN8039BD3 FAIRCHILD 28 SSOPH	
⚠		IC803	0IPMGFA015A	IC,POWER MANAGEMENT	KA78R33TSTU FAIRCHILD 4P TO-22	
		IC804	0ISS308200A	IC,SAMSUNG ELECTRONICS	KA3082 10-SIP BK MOTOR DRIVE	
		RM301	0IRH693840A	IC,ROHM	RPM6938-V4 3P BK REMOCON MODUL	
				JACK		
		JK401	576-002I	JACK,RCA	S-436*-2P PARK ELEC- RD/WH	
		JK702	572-559F	JACK 6.4	HTJ064-04B KUNMING 9PIN MOLD	
		JK801	6620S-L001A	SOCKET (CIRC),DRAWING	GP1F32T SHARP OPTICAL H	
				LED		
		LD301	0DL307119BA	LED	LTL-307EE-112A TP LITEON RED =	
		LD302	0DL307119BA	LED	LTL-307EE-112A TP LITEON RED =	
		LD305	0DL307119BA	LED	LTL-307EE-112A TP LITEON RED =	
		LD306	0DL307119BA	LED	LTL-307EE-112A TP LITEON RED =	
		LD308	0DL111209EA	LED	LTL-1CHKES-UA TP LITEON GREEN	
		LD309	0DL111209EA	LED	LTL-1CHKES-UA TP LITEON GREEN	
		LD310	0DL111209EA	LED	LTL-1CHKES-UA TP LITEON GREEN	
		LD311	0DL111209EA	LED	LTL-1CHKES-UA TP LITEON GREEN	
		LD312	0DL307119EA	LED	LTL-307KE-112A TP LITEON GREEN	
				RELAY		
		RY601	6920RCB101A	BUZZER	SDT-S-105DMR ORIGINAL DC 5 V 1	
		RY701	6920SC0001A	BUZZER	0MI-SS-212LM ORIGINAL DC 12 V	
				RESISTOR		
		L103	0RD0472F609	RESISTOR,FIXED CARBON FILM	47 OHM 1/6 W 5.00% TA52	
		R101	0RD0562F609	RESISTOR,FIXED CARBON FILM	56 OHM 1/6 W 5.00% TA52	
		R102	0RD1000F609	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA52	
		R103	0RD5600F609	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA52	
		R104	0RD1801F609	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA52	
		R105	0RD0102F609	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5.00% TA52	
		R106	0RD1200F609	RESISTOR,FIXED CARBON FILM	120 OHM 1/6 W 5.00% TA52	
		R107	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R108	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R109	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R110	0RD1000F609	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA52	
		R111	0RD3300F609	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA52	
		R112	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R113	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R114	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R115	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R116	0RD0222F609	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA52	
		R117	0RD1502F609	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA52	
		R118	0RD1502F609	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA52	
		R119	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R120	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R121	0RD0102F609	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5.00% TA52	
		R122	0RD1202F609	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA52	
		R125	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R126	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R127	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R128	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R129	0RD3901F609	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA52	
		R130	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R132	0RD1501F609	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA52	
		R133	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R134	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R135	0RD2202F609	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA52	
		R136	0RD3301F609	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA52	
		R137	0RD3301F609	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA52	
		R139	0RD2202F609	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA52	
		R141	0RD1802F609	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA52	
		R142	0RD1802F609	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA52	
		R144	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R146	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R147	0RD8202F609	RESISTOR,FIXED CARBON FILM	82K OHM 1/6 W 5.00% TA52	

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		R148	0RD2201F609	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA52	
		R149	0RD8201F609	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R151	0RD3301F609	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA52	
		R152	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R153	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R156	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R189	0RD2202F609	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA52	
		R191	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R192	0RD8201F609	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R201	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R202	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R203	0RD5601F609	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA52	
		R204	0RD1202F609	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA52	
		R205	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R208	0RD0392F609	RESISTOR,FIXED CARBON FILM	39 OHM 1/6 W 5.00% TA52	
		R209	0RD3903F609	RESISTOR,FIXED CARBON FILM	390K OHM 1/6 W 5.00% TA52	
		R210	0RD1502F609	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA52	
		R211	0RD1202F609	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA52	
		R212	0RD1801F609	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA52	
		R213	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R214	0RD4700F609	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5.00% TA52	
		R215	0RD5602F609	RESISTOR,FIXED CARBON FILM	56K OHM 1/6 W 5.00% TA52	
		R216	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R217	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R218	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R219	0RD1802F609	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA52	
		R220	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R221	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R222	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R223	0RD1202F609	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA52	
		R224	0RD3902F609	RESISTOR,FIXED CARBON FILM	39K OHM 1/6 W 5.00% TA52	
		R225	0RD1202F609	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA52	
		R226	0RD2202F609	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA52	
		R230	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R231	0RD2201F609	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA52	
		R236	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R237	0RD1502F609	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA52	
		R238	0RD0102F609	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5.00% TA52	
		R239	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R242	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R247	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R248	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R249	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R250	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R251	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R252	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R253	0RD5601F609	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA52	
		R254	0RD1202F609	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA52	
		R255	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R256	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R257	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R258	0RD0392F609	RESISTOR,FIXED CARBON FILM	39 OHM 1/6 W 5.00% TA52	
		R259	0RD3903F609	RESISTOR,FIXED CARBON FILM	390K OHM 1/6 W 5.00% TA52	
		R260	0RD1502F609	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA52	
		R261	0RD1202F609	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA52	
		R262	0RD1801F609	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA52	
		R263	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R264	0RD4700F609	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5.00% TA52	
		R265	0RD5602F609	RESISTOR,FIXED CARBON FILM	56K OHM 1/6 W 5.00% TA52	
		R266	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R267	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R268	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R269	0RD1802F609	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA52	
		R270	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R271	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R272	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R273	0RD1202F609	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA52	
		R274	0RD3902F609	RESISTOR,FIXED CARBON FILM	39K OHM 1/6 W 5.00% TA52	
		R275	0RD1202F609	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA52	

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		R276	0RD2202F609	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA52	
		R278	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R280	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R281	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R282	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R283	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R284	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R285	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R286	0RD4700F609	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5.00% TA52	
		R287	0RD2703F609	RESISTOR,FIXED CARBON FILM	270K OHM 1/6 W 5.00% TA52	
		R288	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R289	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R292	0RD0222F609	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA52	
		R293	0RD0222F609	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA52	
		R294	0RD0222F609	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA52	
		R301	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R302	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R303	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R306	0RD5601F609	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA52	
		R307	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R308	0RD3300F609	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA52	
		R310	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R311	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R312	0RD1004F609	RESISTOR,FIXED CARBON FILM	1M OHM 1/6 W 5.00% TA52	
		R313	0RD2203F609	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5.00% TA52	
		R314	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R315	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R316	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R317	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R318	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R319	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R320	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R321	0RD4704F609	RESISTOR,FIXED CARBON FILM	4.7M OHM 1/6 W 5.00% TA52	
		R322	0RD3303F609	RESISTOR,FIXED CARBON FILM	330K OHM 1/6 W 5.00% TA52	
		R323	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R324	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R325	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R326	0RD6800F609	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5.00% TA52	
		R327	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R328	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R329	0RD5600F609	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA52	
		R330	0RD5600F609	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA52	
		R331	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R332	0RD8201F609	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R333	0RD8201F609	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R334	0RD8201F609	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R335	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R336	0RD4700F609	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5.00% TA52	
		R337	0RD5602F609	RESISTOR,FIXED CARBON FILM	56K OHM 1/6 W 5.00% TA52	
		R338	0RD3902F609	RESISTOR,FIXED CARBON FILM	39K OHM 1/6 W 5.00% TA52	
		R339	0RD1802F609	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA52	
		R340	0RD8201F609	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R341	0RD3902F609	RESISTOR,FIXED CARBON FILM	39K OHM 1/6 W 5.00% TA52	
		R342	0RD1802F609	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA52	
		R343	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R344	0RD8201F609	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R345	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R346	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R347	0RD8201F609	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R348	0RD8201F609	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R349	0RD8201F609	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R350	0RD1501F609	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA52	
		R351	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R352	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R353	0RD1501F609	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA52	
		R354	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R355	0RD2201F609	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA52	
		R356	0RD1501F609	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA52	
		R357	0RD5601F609	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA52	

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S	AL	LOCA.NO.	PART NO	DESCRIPTION	SPECIFICATION	REMARKS
		R358	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R359	0RD2203F609	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5.00% TA52	
		R360	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R361	0RD2203F609	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5.00% TA52	
		R362	0RD1802F609	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA52	
		R363	0RD2203F609	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5.00% TA52	
		R364	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R365	0RD1802F609	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA52	
		R366	0RD3900F609	RESISTOR,FIXED CARBON FILM	390 OHM 1/6 W 5.00% TA52	
		R367	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R368	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R369	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R370	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R371	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R372	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R373	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R374	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R375	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R376	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R377	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R378	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R379	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R380	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R381	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R382	0RD6800F609	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5.00% TA52	
		R383	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R384	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R385	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R386	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R387	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R388	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R389	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R390	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R391	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R392	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R393	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R394	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R395	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R399	0RD1800F609	RESISTOR,FIXED CARBON FILM	180 OHM 1/6 W 5.00% TA52	
		R3A1	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R3A3	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R400	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R401	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R402	0RD2202F609	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA52	
		R403	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R404	0RD5601F609	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA52	
		R407	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R408	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R409	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R411	0RD2701F609	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5.00% TA52	
		R413	0RD3303F609	RESISTOR,FIXED CARBON FILM	330K OHM 1/6 W 5.00% TA52	
		R415	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R418	0RD2702F609	RESISTOR,FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA52	
		R419	0RD2702F609	RESISTOR,FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA52	
		R420	0RD2202F609	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA52	
		R421	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R423	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R425	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R427	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R446	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R450	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R451	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R452	0RD2202F609	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA52	
		R453	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R454	0RD5601F609	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA52	
		R457	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R458	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R459	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R461	0RD2701F609	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5.00% TA52	

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S	AL	LOCA.NO.	PART NO	DESCRIPTION	SPECIFICATION	REMARKS
		R463	0RD3303F609	RESISTOR,FIXED CARBON FILM	330K OHM 1/6 W 5.00% TA52	
		R465	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R468	0RD2702F609	RESISTOR,FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA52	
		R469	0RD2702F609	RESISTOR,FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA52	
		R470	0RD2202F609	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA52	
		R471	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R473	0RD1000F609	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA52	
		R475	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R476	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R487	0RD1202F609	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA52	
		R488	0RD1502F609	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA52	
		R493	0RD1004F609	RESISTOR,FIXED CARBON FILM	1M OHM 1/6 W 5.00% TA52	
		R494	0RD1502F609	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA52	
		R495	0RD1501F609	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA52	
		R501	0RD6800F609	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5.00% TA52	
		R502	0RD6800F609	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5.00% TA52	
		R503	0RD8200F609	RESISTOR,FIXED CARBON FILM	820 OHM 1/6 W 5.00% TA52	
		R504	0RD1201F609	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5.00% TA52	
		R505	0RD1501F609	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA52	
		R506	0RD1801F609	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA52	
		R507	0RD2701F609	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5.00% TA52	
		R508	0RD3301F609	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA52	
		R509	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R510	0RD6801F609	RESISTOR,FIXED CARBON FILM	6.8K OHM 1/6 W 5.00% TA52	
		R511	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R512	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R513	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R515	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R520	0RD6800F609	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5.00% TA52	
		R521	0RD6800F609	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5.00% TA52	
		R522	0RD8200F609	RESISTOR,FIXED CARBON FILM	820 OHM 1/6 W 5.00% TA52	
		R523	0RD1201F609	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5.00% TA52	
		R524	0RD1501F609	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA52	
		R525	0RD1801F609	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA52	
		R526	0RD2701F609	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5.00% TA52	
		R527	0RD3301F609	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA52	
		R528	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R529	0RD6801F609	RESISTOR,FIXED CARBON FILM	6.8K OHM 1/6 W 5.00% TA52	
		R530	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R531	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R532	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R533	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R534	0RD6800F609	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5.00% TA52	
		R536	0RD8200F609	RESISTOR,FIXED CARBON FILM	820 OHM 1/6 W 5.00% TA52	
		R537	0RD8200F609	RESISTOR,FIXED CARBON FILM	820 OHM 1/6 W 5.00% TA52	
		R702	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R703	0RD5602F609	RESISTOR,FIXED CARBON FILM	56K OHM 1/6 W 5.00% TA52	
		R705	0RD5600F609	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA52	
		R706	0RD5602F609	RESISTOR,FIXED CARBON FILM	56K OHM 1/6 W 5.00% TA52	
		R707	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R711	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R712	0RD1201F609	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5.00% TA52	
		R713	0RD3301F609	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA52	
		R714	0RD1501F609	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA52	
		R715	0RD1501F609	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA52	
		R716	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R718	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R719	0RM0150N764	RESISTOR,FIXED CEMENT	0.15 OHM 5 W 10.00% B RSR	
		R720	0RD0102F609	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5.00% TA52	
		R721	0RD0102F609	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5.00% TA52	
		R722	0RD2203F609	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5.00% TA52	
		R723	0RD2203F609	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5.00% TA52	
		R724	0RM0150N764	RESISTOR,FIXED CEMENT	0.15 OHM 5 W 10.00% B RSR	
		R725	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R729	0RM0150N764	RESISTOR,FIXED CEMENT	0.15 OHM 5 W 10.00% B RSR	
		R730	GRS1000J619	RESISTOR,FIXED METAL OXIDE FIL	100 OHM 1 W 5.00% TR	
		R731	0RS1501J619	RESISTOR,FIXED METAL OXIDE FIL	1.5K OHM 1 W 5% TR	
		R732	0RD1201F609	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5.00% TA52	
		R734	0RS3300K619	RESISTOR,FIXED METAL OXIDE FIL	330 OHM 2 W 5% TR	

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S	AL	LOCA.NO.	PART NO	DESCRIPTION	SPECIFICATION	REMARKS
		R741	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R742	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R743	0RD5601F609	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA52	
		R744	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R745	0RD5600F609	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA52	
		R746	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R747	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R748	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R750	0RD2202F609	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA52	
		R752	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R753	0RD5602F609	RESISTOR,FIXED CARBON FILM	56K OHM 1/6 W 5.00% TA52	
		R755	0RD5600F609	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA52	
		R756	0RD5602F609	RESISTOR,FIXED CARBON FILM	56K OHM 1/6 W 5.00% TA52	
		R762	0RD1201F609	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5.00% TA52	
		R763	0RD3301F609	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA52	
		R764	0RD1501F609	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA52	
		R765	0RD1501F609	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA52	
		R766	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R769	0RM0150N764	RESISTOR,FIXED CEMENT	0.15 OHM 5 W 10.00% B RSR	
		R770	0RD0102F609	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5.00% TA52	
		R771	0RD0102F609	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5.00% TA52	
		R772	0RD3302F609	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5.00% TA52	
		R773	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R774	0RM0150N764	RESISTOR,FIXED CEMENT	0.15 OHM 5 W 10.00% B RSR	
		R779	0RM0150N764	RESISTOR,FIXED CEMENT	0.15 OHM 5 W 10.00% B RSR	
		R780	GRS1000J619	RESISTOR,FIXED METAL OXIDE FIL	100 OHM 1 W 5.00% TR	
		R781	0RS1501J619	RESISTOR,FIXED METAL OXIDE FIL	1.5K OHM 1 W 5% TR	
		R784	0RS3300K619	RESISTOR,FIXED METAL OXIDE FIL	330 OHM 2 W 5% TR	
		R792	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R793	0RD1502F609	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA52	
		R794	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R795	0RD0102F609	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5.00% TA52	
		R801	0RD2202F609	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA52	
		R802	0RD1502F609	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA52	
		R803	0RD1502F609	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA52	
		R804	0RD1502F609	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA52	
		R805	0RD1502F609	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA52	
		R806	0RD2202F609	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA52	
		R807	0RD1000F609	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA52	
		R808	0RD0102F609	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5.00% TA52	
		R809	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R810	0RD3300F609	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA52	
		R811	0RD2202F609	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA52	
		R812	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R813	0RD3304F609	RESISTOR,FIXED CARBON FILM	3.3M OHM 1/6 W 5.00% TA52	
		R818	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R819	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R820	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R821	0RD1003F609	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA52	
		R822	0RD2201F609	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA52	
		R823	0RD2201F609	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA52	
		R824	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R825	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R826	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R827	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R828	0RD2201F609	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA52	
		R829	0RD1000F609	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA52	
		R830	0RD1000F609	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA52	
		R831	0RD1000F609	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA52	
		R832	0RD1000F609	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA52	
		R834	0RD6800F609	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5.00% TA52	
		R835	0RD6800F609	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5.00% TA52	
		R836	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R837	0RD2201F609	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA52	
		R838	0RD1001F609	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA52	
		R839	0RD2200F609	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA52	
		R840	0RD1202F609	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA52	
		R841	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R842	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	

S	AL	LOCA.NO.	PART NO	DESCRIPTION	SPECIFICATION	REMARKS
		R843	0RD1202F609	RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA52	
		R844	0RD2701F609	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5.00% TA52	
		R847	0RD1501F609	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA52	
		R848	0RD4701F609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA52	
		R850	0RD4702F609	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA52	
		R851	0RD3902F609	RESISTOR,FIXED CARBON FILM	39K OHM 1/6 W 5.00% TA52	
		R852	0RD1802F609	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA52	
		R853	0RD8201F609	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R854	0RD8201F609	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R855	0RD8201F609	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R856	0RD8201F609	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R857	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R858	0RD1002F609	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA52	
		R859	0RD1802F609	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA52	
		R860	0RD1000F609	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA52	
		R861	0RD1000F609	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA52	
		R862	0RD6802F609	RESISTOR,FIXED CARBON FILM	68K OHM 1/6 W 5.00% TA52	
		R863	0RD2200F609	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA52	
		R867	0RD1004F609	RESISTOR,FIXED CARBON FILM	1M OHM 1/6 W 5.00% TA52	
		RH301	614-013X	RESISTOR,DRAWING	ARRAY 100K X 12 PIN ABCO	
		RH302	614-013X	RESISTOR,DRAWING	ARRAY 100K X 12 PIN ABCO	
		RH303	614-013X	RESISTOR,DRAWING	ARRAY 100K X 12 PIN ABCO	
		VR201	0RV1472D231	RESISTOR,DRAWING	4.7K OHM 6 ST L3P5 TAPING TYP	
		W868	0RD1000F609	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA52	
				SWITCH		
		SW501	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW502	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW503	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW504	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW505	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW506	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW507	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW508	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW509	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW510	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW511	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW512	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW513	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW514	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW551	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW552	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW553	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW554	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW555	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW556	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW557	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW558	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW559	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW560	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW561	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW562	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW563	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
				TERMINAL		
		JK101	6800S-A002A	TERMINAL (CIRC),BLOCK	SP-031F PARK ELEC- 3P AC60V 5A	
		JK701	561-100D	TERMINAL (CIRC),BLOCK	SP-026B PARK ELEC- 4P AC60V 5A	
				TRANSFORMER		
⚠		T601	6170RCM11WS	TRANSFORMER,POWER	110/120/220/230/240V 50/60HZ 8	
⚠		T602	6170RCA05FS	TRANSFORMER,POWER	230V,50HZ 30X SEK G CORE	
				TRANSISTOR		
		Q101	0TR319209AA	TRANSISTOR	KTC3192-O(KTC380TM) TP KEC TO9	
		Q102	0TR126709AB	TRANSISTOR	KTA1267-O MINI TP KEC	
		Q103	0TR102009AF	TRANSISTOR	KRC102M,(KRC1202) TP KEC TO92	
		Q107	0TR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC	
		Q108	0TR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC	
		Q115	0TR102009AF	TRANSISTOR	KRC102M,(KRC1202) TP KEC TO92	
		Q201	0TR130209AA	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q202	0TR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC	
		Q203	0TR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC	

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		Q206	0TR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC	
		Q207	0TR320509AB	TRANSISTOR	KTC3205-TP-Y (KTC2236A)KEC	
		Q208	0TR130209AA	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q251	0TR130209AA	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q252	0TR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC	
		Q253	0TR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC	
		Q254	0TR102009AF	TRANSISTOR	KRC102M,(KRC1202) TP KEC TO92	
		Q302	0TR102009AF	TRANSISTOR	KRC102M,(KRC1202) TP KEC TO92	
		Q310	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q311	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q312	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q314	0TR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC	
		Q315	0TR102009AF	TRANSISTOR	KRC102M,(KRC1202) TP KEC TO92	
		Q357	0TR102009AF	TRANSISTOR	KRC102M,(KRC1202) TP KEC TO92	
		Q401	0TR130209AA	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q402	0TR102009AE	TRANSISTOR	KRA102M (KRA2202) TP KEC TO	
		Q451	0TR130209AA	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q701	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q702	0TR320009AA	TRANSISTOR	KTC3200-GR (KTC2240) TP KEC TO	
		Q703	0TR949009AA	TRANSISTOR	KTA949-Y(A1024) TP KEC TO-92L	
		Q705	0TR102009AF	TRANSISTOR	KRC102M,(KRC1202) TP KEC TO92	
		Q706	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q752	0TR320009AA	TRANSISTOR	KTC3200-GR (KTC2240) TP KEC TO	
		Q761	0TR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC	
		Q762	0TR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC	
		Q763	0TR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC	
		Q764	0TR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC	
		Q766	0TR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC	
		Q791	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q792	0TR103009AE	TRANSISTOR	KRC103M-TP (KRC1203) KEC	
		Q801	0TR127109AA	TRANSISTOR	KTA1271-TP-Y (KTA950)KEC	
		Q803	0TR102009AE	TRANSISTOR	KRA102M (KRA2202) TP KEC TO	
		Q804	0TR130209AA	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q805	0TR130209AA	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
				TUNER		
		TUN101	6700SCF001B	TUNER	KST-F404VA-2 KWANGSUNG FM	
				VARIABLE RESISTOR		
		VR301	6110SFSU20A	VOLUME,SLIDE	CSES-1602-20FP EMPTY CLICK CHA	
		R302	6110SFSU08A	VOLUME,SLIDE	EC10E1220503 ALPS 10MM ROTARY	
				X-TAL		
		X104	617T602D	RESONATOR,CRYSTAL	HC49/U KONY 7-20MHZ 30PPM 20P	
		X301	6212AA2983C	RESONATOR,CRYSTAL	HC-49S BUBANG 9.8304MHZ +/- 30	
		X302	617-602F	RESONATOR,CRYSTAL	SKS941215-01 CITIZEN 32-768KHZ	
		X351	6202S-AJ02A	RESONATOR,CRYSTAL	HC-49/U KONY 4332000HZ 30PPM	
		X801	6212AA2338F	RESONATOR,CRYSTAL	HC-49S KYUNGIL 33.8688MHZ +/-	
				ZENER DIODE		
		ZD302	0DZ680009AL	DIODE,ZENERS	GDZJ6.8B GRANDE TP52 - - 6.8V	
		ZD303	0DZ510009AH	DIODE,ZENER	GDZJ5.1B TP GRANDE DO-34 500MW	
		ZD701	0DZ510009AH	DIODE,ZENER	GDZJ5.1B TP GRANDE DO-34 500MW	
		ZD702	0DZ330009AR	DIODE,ZENERS	GDZJ33D GRANDE TP52 - - 33V 5U	
		ZD708	0DZ150009AE	DIODE,ZENERS	GDZJ15C GRANDE TP52 DO34 - 15V	
		ZD758	0DZ150009AE	DIODE,ZENERS	GDZJ15C GRANDE TP52 DO34 - 15V	
		ZD801	0DZ390009AC	DIODE,ZENER	GDZJ3.9B TP GRANDE DO-34 500MW	
		ZD803	0DZ510009AH	DIODE,ZENER	GDZJ5.1B TP GRANDE DO-34 500MW	
				CONNECTOR		
		CN302	6630S-BC044	CONNECTOR (CIRC),BOARD TO BOAR	TKC-V30X-A1 TAIKO DENKI 30PIN	
		CN308	561-640C	CONNECTOR (CIRC),WIRE TRAP	GL200-03P-TS LG CABLE 3PIN 2-0	
		CN513	561-640H	CONNECTOR (CIRC),WIRE TRAP	GL200-08P-TS LG CABLE 8PIN 2-0	
		CN701	561-640L	CONNECTOR (CIRC),WIRE TRAP	GL200-12P-TS LG CABLE 12PIN 2-	
		CN801	6850RCGP24A	CABLE,FLAT	P=1.0 FFC UL2896(0.05X0.65) 16	
		CN809	561-707T	CONNECTOR (CIRC),FFC/FPC	52492-2020 MOLEX 20PIN 1-25MM	
		PN201	561-715C	CONNECTOR (CIRC),WAFER	GIL-G-03P-S3T2-E LG CABLE 3PIN	
		PN202	561-715H	CONNECTOR (CIRC),WAFER	GIL-G-08P-S3T2-E LG CABLE 8PIN	
		PN302	6630S-BC034	CONNECTOR (CIRC),BOARD TO BOAR	TKC-V30P-A1 TAIKO DENKI 30PIN	
		PN308	561-644C	CONNECTOR (CIRC),WIRE TRAP	52147-0310 MOLEX 3PIN 2-0MM ST	
		PN320	561-686Q	CONNECTOR (CIRC),FFC/FPC	00-8370-171-000-800 ELCO 17PIN	
		PN601	561-292B	CONNECTOR	GP390 LGC 3P 3.96 STRAIGHT SN	
		PN701	561-643L	CONNECTOR (CIRC),WIRE TRAP	52151-1210 MOLEX 12PIN 2-0MM A	

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		PN801	561-711EAAA	CONNECTOR (CIRC);WAFER	GIL-S-05P-S2T2-EF LG CABLE 5PI	
		PN802	561-711F	CONNECTOR (CIRC),WAFER	GIL-S-06P-S2T2-EF LG CABLE 6PI	
		PN803	561-711DAAA	CONNECTOR (CIRC),HOUSING	GIL-S-04P-S2T2-EF LG CABLE 4PI	
		PN804	6630XE00816	CONNECTOR (CIRC),FFC/FPC	JE500-A1.0-T16 JAE EUN 16P 1.0	
		PN805	561-711B	CONNECTOR (CIRC),WAFER	GIL-S-02P-S2T2-EF LG CABLE 2PI	
		PN806	561-716C	CONNECTOR (CIRC),WAFER	GIL-G-03P-S3L2-E LG CABLE 3PIN	
		PN807	561-644H	CONNECTOR (CIRC),WIRE TRAP	52147-0810 MOLEX 8PIN 2-0MM ST	
		PN809	561-686T	CONNECTOR (CIRC),FFC/FPC	00-8370-201-000-800 ELCO 20PIN	
		PN820	561-715C	CONNECTOR (CIRC),WAFER	GIL-G-03P-S3T2-E LG CABLE 3PIN	
			563-648D	CONNECTOR ASSY	ECTOR AY 150 CODE A UL	
			563-655A	CONNECTOR ASSY	563-655A NAMIL LEAD 300MM	
			563-801D	CONNECTOR ASSY	P=2.0 GIL-S06X2 1571#28 250	
			563-935E	CONNECTOR ASSY	P=2.54 GIL-G03X2 2547#28 250	
			563-935I	CONNECTOR ASSY	P=2.54 GIL-G08/G06 2547#28 240	
			6631SBE001A	CONNECTOR ASSY	P=2.0 , GIL-S02/S02 UL1571	
			6631SBE001B	CONNECTOR ASSY	P=2.0 ,GIL-S04/S04 UL 1571	
			6631SBE001C	CONNECTOR ASSY	P=2.0 ,GIL-S05/S05 UL1571	